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1988

For Amoco CO₂ Projects
Environmental Impact Statement

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Appendix A. Fragile Soil Units

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Appendix A. Fragile Soil Units

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Table A. Glossary of Fragile Soil Unit Criteria

Criterion	Definition and Source
Shallow:	Less than 20 inches of soil underlain by bedrock Data from Engineering Properties tables; Appendix B
Hard Bedrock:	Bedrock designated 'hard' Data from Soil and Water Features tables; Appendix D
Texture:	Sand, loamy sand and clay-textured surface or subsoil layers Data from Engineering Properties tables; Appendix B
35% Coarse:	Containing more than 35 percent coarse fragments by volume, with fragments exceeding 3 inches in diameter; Data from Engineering Properties tables; Appendix B
Permeability:	Permeability less than 0.6 inches per hour Data from Physical and Chemical Properties tables; Appendix C
Water Table:	Water table less than 72 inches deep Data from Soil and Water Features tables; Appendix D
pH:	Soil reaction with pH value greater than 8.5, salinity more than 16 millimhos in the upper 40 inches; and Data from Physical and Chemical Properties tables; Appendix C
Slopes:	Occupying slopes steeper than 15 percent. See Table A-9 Data from Soil Units tables; see appropriate project section

Table A-1. Fragile Soil Units of Big Horn County. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
BH1A			StLS					
BHb1A			FS,LS,LFS			X		
BH4A			LS,StGLS,GS			X		
BHa7A						X		
BH11A			VGLS,XGLS,VGS					
BH11AC			C,SiC		X			
BH15AC			VGLS,XGLS,VGS					
BH40AC			C,SiC		X			
BH42A			LS					
BH42C			LS					
BH42AC			LS					
BH43A					X			
BHD43					X			
BH44sAB					X			
BH45AB					X			
BH47AC			C,SiC		X			
BH48A					X			
BH71			C		X			
BH71BC			C		X			
BH90A	X		C,SiC		X			
BH101 (c)						X		
BH102 (c)	X							X
BH103 (c)	X							X
BH112 (c)						X		
BH303A			GS,XGLS,VGLS	X		X		
BH306A			XGLS,VGLS	X				
BH315			XGS,XGLS,VGLS	X				X
BH317	X		C, LS		X			
BH343AC			LS					
BH351AC					X			
BH363AD					X			
BH368AC					X			
BH371AD	X				X			X
BH372CD	X				X			X
BH373AB					X			
BH374CE	X		C,SiC		X			X
BH409A			StLS					
BH413A			VGS,XGCOS					
BH413AC			VGS,XGCOS					
BH413jA			VGS,XGCOS			X		
BH467BD	X				X			X
BH468AC	X		S,LS		X		X	X
BH471CE	X		C		X			X
BH472AD	X							X
BH474AD	X		C,SiC		X			X
BH493BD			XGLS,VGS,XGS					X
BH548A (c)						X		
BH570AD	X		S,LS		X		X	X
BH572CE	X							X
BH601			S,LS		X		X	

a = See Table A, Glossary of fragile soil unit criteria.

b = See also Table A-9 for specific steep slope locations.

c = Not rated in Soil Conservation Service soil tables but soils are limited, as indicated, by definition; criteria other than shallowness and water table are too variable to estimate

Table A-2. Fragile Soil Units of Carbon County Montana. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
Hn			C,SiC		X			
Hs			C,SiC		X			
Hu			C,SiC		X			
Hw			C,SiC		X			
Kd			C,SiC		X			
LO			C,SiC		X			
MR	X		C,SiC		X			X
MT	X		C,SiC		X			X
RM	X							X
SC (c)	X							
TV			VCCOS					
TW			C,SiC		X			

a = See Table A, Glossary of fragile soil unit criteria.

b = See also Table A-9 for specific steep slope locations.

c = Not rated in Soil Conservation Service soil tables but soils are limited, as indicated, by definition; criteria other than shallowness are too variable to estimate

Table A-3. Fragile Soil Units of Fremont County. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
Fell			LS,LFS					
F2d11			VGS					
F3d11			LS					
F2g11								X
F2n11	X				X			X
F2a32				X				
F2j72	X		C		X			
F90			S					
F101	X				X			
F102	X				X			X
F105	X				X			X
F107	X							
F201	X							
F203						X		
F205			StLS			X		
F206					X			
F209			C		X			
F217			LFS		X			
F218			LS,LFS					
F227			XGS	X				
F230	X							X
F231	X	X						
F234	X							X
F237			S,LS		X		X	
F248					X			
F267	X		C		X			
F270	X				X			X
F271	X				X			X
F272	X							X
F274	X							X
F277	X				X			
F293	X							X
F294			StLS					
F297	X		C		X			
F298	X				X			X
F301					X			
F306			C		X			
F309			C,SiC		X	X		
F311			LS					
F340			LS		X	X		
F348			VGS,VHLS,XGLS					
F372	X							X
F375	X							
F393	X							X
F406	X							
F409			LS,SiC		X		X	
F469			C,LS,SiC		X		X	
F493	X		VGLS					
F672	X							X
F995			GS,GLS		X	X		

a = See Table A, Glossary of fragile soil unit criteria.

b = See also Table A-9 for specific steep slope locations.

Table A-4. Fragile Soil Units of Hot Springs County. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
HS47			C,SiC		X		X	
HS67	X		C,SiC		X		X	
HS68			C,SiC		X		X	X
HS71	X		C,SiC		X		X	
HS72			C,SiC		X		X	
HS73			C		X		X	
HS75			C,SiC		X			
HS102 (c)	X							X
HS103 (c)						X		
HS110	X		LVFS					
HS111	X		LVFS					X
HS190	X				X			
HS246	X		C,SiC		X			
HS315	X				X			
HS322	X							X
HS324			VGS	X				
HS325			VGS	X				
HS345			LS					
HS371	X							
HS372	X		LVFS					
HS375			C		X			
HS382	X		LVFS					
HS383	X		LVFS					
HS389	X							X
HS393								
HS398	X		LVFS					X
HS410	X				X			
HS411	X							
HS426			GS	X				
HS447	X							
HS448 (c)						X		
HS450 (c)						X		
HS490	X							X
HS572	X							
HS601							X	
HS602					X		X	
HS604			C		X			
HS645	X		C		X			
HS671	X				X			X
HS702			C		X		X	
HS708	X		C		X			X
HS709	X		C		X		X	X
HS720	X							X
HS722	X							X
HS723	X							X
HS725	X							X
HS736					X			
HS749	X		C		X			
HS751	X				X			
HS753	X		C		X			
HS902	X		C					X
HS910	X		C		X		X	X
HS930	X	X		X				X
HS931		X						X

a = See Table A, Glossary of fragile soil unit criteria.

b = See also Table A-9 for specific steep slope locations.

c = Not rated in Soil Conservation Service soil tables but soils are limited, as indicated, by definition; criteria other than shallowness and water table are too variable to estimate

Table A-5. Fragile Soil Units of Lincoln and Sweetwater Counties. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
L300			C,SiC		X		X	
L303			C,SiC		X			
L305			FS					X
L306	X		FS, SiC		X			X
L307	X		C,SiC		X			
L310	X		SiC		X			
L311	X							
L312	X							X
L313	X		SiC		X			X
L314	X	X						
L315	X	X			X			
L400			C,SiC		X			
L410	X							X
L411	X							X

a = See Table A, Glossary of fragile soil unit criteria.

Sweetwater County data are not detailed enough to make consistent inferences.

b = See also Table A-9 for specific steep slope locations.

Table A-6. Fragile Soil Units of Natrona County. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
109					X			
112	X		C, SiC		X			
117 (c)	X							
125	X		C, SiC		X			X
130			VGS, LS					
132			LS					
134	X							X
140	X		C, SiC		X			
150	X		C		X			X
175 (c)			S					
178			C		X			
179			LS					
187			C		X			
190			LS					
191	X		LS, VGS					
195	X		StLS					
201			LS					
208					X			
209	X		C, SiC		X			
210			LS, SiC		X			
214	X		C, SiC		X			X
216			C, SiC		X			
217	X				X			X
222	X		C		X			X
226	X				X			X
227	X		C, SiC		X			X
228	X		C		X			X
229								X
232	X				X			X
275	X							X
276	X							
278			C, SiC		X			
283	X							X
293			C, SiC		X			
301			LS, LFS					

a = See Table A, Glossary of fragile soil unit criteria.

b = See also Table A-9 for specific steep slope locations.

c = Not rated in Soil Conservation Service soil tables but soils are limited, as indicated, by definition; criteria other than shallowness for badlands and texture for dunelands are too variable to estimate

Table A-7. Fragile Soil Units of Park County. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
Pa1 (c)						X		
P5AB			FS,LS,LFS			X		
P5u (c)						X		
P11A			VGLS					
P13AB			VGLS,XGLS	X				
P15A			VGS,VGLS,XGLS					
P15C			VGS,VGLS,XGLS					
P16AB					X			
P16AC					X			
P41A					X			
P42A			LS					
P42AC			LS					
P42B			LS					
P43A					X			
P43CA					X			
P45AB					X			
P47AB			C,SiC		X			
P48A					X			
P61AB			C,SiC					
P63AB					X			
P68A					X			
P68AD					X			
P70AB			S,LS		X		X	
P71A					X			
P73B			C		X			
P93A			LFS					
P93C			LFS					
P101 (c)						X		
P102 (c)	X							X
P103 (c)	X							X
P108						X		X
P111	X		LS,LFS					X
P248						X		
P294			LS					
P303A			XGLS,VGLS,SG,LS	X		X		
P313A			VGS,XGCOS,XGS					
P315BE	X		XGLS,VGLS,XGS	X				X
P337			LFS,LS					X
P340			C,SiC		X			
P350	X		C,SiC		X			X
P351AC	X				X			X
P358	X		C,SiC		X			X
P371AD	X				X			X
P372AD	X							X
P372CD	X				X			X
P373BE	X		C,SiC		X			X
P374BE	X		C,SiC		X			X
P377	X		C,SiC		X			X
P382			LFS					X
P393			LFS					
P396	X							X
P398			LS,LFS					X
P413A			VGS,XGCOS					
P442BE	X							X
P469			LS		X			
P471	X		C		X			X
P471CE	X		C		X			X
P548 (c)						X		
P569			S,LS		X		X	
P601			S,LS		X		X	
P701			SL		X			

a = See Table A, Glossary of fragile soil unit criteria.

b = See also Table A-9 for specific steep slope locations.

c = Not rated in Soil Conservation Service soil tables but soils are limited, as indicated, by definition; criteria other than shallowness and water table are too variable to estimate

Table A-8. Fragile Soil Units of Washakie County. (a)

Soil Map Unit	Shallow	Hard Bedrock	Texture	35% Coarse	Permeability	Water Table	pH	Slopes (b)
7			StLS			X		
8			StLS			X		
14	X				X			X
16						X		
18			C		X	X		
19 (c)						X		
20 (c)						X		
21			C		X			
23								X
25			StLS			X		
26			LFS, StLS			X		
29	X				X			
30	X				X			X
33	X	X			X			X
34	X							X
35	X				X			
40					X			
41					X			
42					X		X	
43					X	X		
46					X			X
56	X				X			X
57	X				X			X
60 (c)						X		
61	X				X			X
66					X			
67					X	X		
70	X				X		X	X
71			VGLS		X		X	
73			LFS					
80	X				X			
81						X		
82					X			
83					X	X		
84					X		X	

a = See Table A, Glossary of fragile soil unit criteria.

b = See also Table A-9 for specific steep slope locations.

c = Not rated in Soil Conservation Service soil tables but soils are limited, as indicated, by definition; criteria other than shallowness and water table are too variable to estimate

Table A-9. Steep Slope Areas Identified for Each Project. (a)

Project	Milepost	Description
Fontenelle	7.2w	Slate Creek
Elk Basin	8.9 - 9.6	Approach to Polecat Bench
	13.8 - 14.0	Miscellaneous
	14.3 - 14.4	
	20.1 - 20.2	
	29.5 - 29.6	
	33.3 - 33.4	
	35.8 - 35.9	
	36.5 - 36.7	
	44.3 - 44.4	
	49.2 - 49.3	
	51.2 - 51.3	
	53.8 - 54.0	Sheep Mountain/Red Butte area
	54.1 - 54.6	
	55.0 - 55.1	
	56.0 - 56.6	
	57.1 - 57.3	
	57.4 - 57.5	
	57.8 - 59.0	
	73.1 - 73.2	Miscellaneous
	75.0 - 75.1	
	75.4 - 75.5	
	88.0 - 88.3	Cedar Mountain area
	92.2 - 92.4	
	92.8 - 92.9	Drainages in Zimmerman Butte area
	93.4 - 93.5	
	93.9 - 94.0	
	95.3 - 95.5	
	96.1 - 96.2	
	96.5 - 96.6	
	97.0 - 97.3	
	97.5 - 97.6	
	98.6 - 98.7	
	99.3 - 99.4	
	102.6 - 102.7	Kirby Creek area
	103.2 - 103.4	
	110.0 - 110.1	
	111.2 - 111.7	
	112.5 - 113.1	
	113.6 - 113.7	
	114.0 - 114.2	
	114.3 - 114.7	
	115.2 - 115.4	
	115.7 - 115.8	
	116.0 - 116.5	Kirby Creek and Lysite Mountain area
	116.8 - 117.0	
	117.3 - 117.8	
	118.1 - 118.2	
	118.5 - 118.7	

Table A-9. Continued.

Project	Milepost	Description
	119.2 - 119.6 120.1 - 120.9 121.2 - 121.3 123.1 - 123.2	Bridger Creek Vicinity and Lysite Mountain area
	128.9 - 129.2 132.9 - 133.2	Miscellaneous
	168.6 - 168.7 169.4 - 169.5	Hells Half Acre
Beaver Creek	11.8 - 13.3	Beaver Divide
	13.8 - 13.9 14.3 - 14.5 15.8 - 15.9 22.1 - 22.3 26.8 - 26.9 34.7 - 34.8 36.9 - 37.0 42.8 - 43.2	Miscellaneous
Little Buffalo Basin	2.9 - 3.0	Miscellaneous
	3.5 - 3.7 4.1 - 4.3 4.6 - 4.7	East rim of Little Buffalo Basin
	5.0 - 5.1 6.3 - 6.4 7.7 - 7.8 8.1 - 8.3	Miscellaneous
	8.7 - 8.9	Bluff above Buffalo Creek
	9.5 - 9.6 9.8 - 10.1 11.9 - 12.0 12.2 - 12.3 27.7 - 28.3 34.3 - 34.4	Miscellaneous
Salt Creek	0.5 - 1.2 3.3 - 3.4	Miscellaneous

a = Slopes greater than 15%; determined from 1:24,000 topographic maps.

Appendix B. Engineering Properties of Soils

Appendix B. Engineering Properties of Soils

Appendix B. Engineering Properties of Soils.

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Table B. Glossary of Terms Used in Tables of Engineering Properties of Soils. (a)

Term	Definition
Unified Classification:	Classifies soils according to properties that affect their use as construction materials, using grain size distribution of less than 3 inches in diameter and according to plasticity index, liquid limit and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM and SC; silty and clayey soils as ML, CL, OL, MH, CH and OH; and highly organic soils as Pt.
AASHTO Classification:	Classifies soils according to properties that affect roadway construction and maintenance. The fraction of mineral soil less than 3 inches in diameter is classified in groups A-1 through A-7 on the basis of grain size distribution, liquid limit and plasticity index. A-1 soils are coarse grained and low in fines (silt and clay). A-7 soils are fine grained. Highly organic soils are visually categorized as A-8.
Percentage passing sieves:	Includes only the soil fraction less than 3 inches in diameter. The sieves numbered 4, 10, 40 and 200 have openings of 4.76, 2.00, 0.420 and 0.074 millimeters, respectively.
Liquid and Plasticity Limits:	Otherwise known as Atterberg limits, indicate the plasticity characteristics of the soil.

a = Source: Soil Conservation Service. 1983. Soil Survey of Washakie County, Wyoming.

Table B-1. Engineering Properties of Carbon County, Montana, Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Colby	0-4	Silty loam, loam	CL, ML, CL-ML	A-4, A-6	0	100	100	90-100	85-100	25-40	3-15
	0-4	Silty clay loam	CL	A-6	0	100	100	90-100	85-100	30-40	10-15
	0-4	Very fine sandy loam	ML, CL-ML	A-4	0	100	100	90-100	60-75	<25	NP-5
	4-60	Silty loam, loam	CL, ML	A-4, A-6	0	100	100	90-100	85-100	25-40	3-15
Haverson	0-6	Loam, fine sandy loam, silty loam	ML, CL-ML SM, SM-SC	A-4	0	95-100	80-100	65-90	40-75	20-30	NP-10
	0-6	Sandy loam, loamy sand	SM, SM-SC	A-2, A-4	0	95-100	80-100	60-70	25-40	15-20	NP-5
	0-6	Clay loam, silty clay loam	CL	A-6	0	95-100	80-100	75-95	60-90	30-40	10-15
	6-60	SR-clay loam, sand	CL, CL-ML SM, SM-SC	A-4, A-6	0	95-100	75-100	65-90	45-60	25-35	5-15
Heldt	0-6	Silty clay loam, clay loam	CL	A-7, A-6	0	95-100	95-100	95-100	75-95	35-45	20-30
	0-6	Silty clay, clay	CH, CL	A-7	0	95-100	95-100	95-100	75-95	45-55	30-35
	6-60	Silty clay, clay loam, clay	CH, CL	A-7	0	95-100	95-100	95-100	75-95	45-55	25-35
Kyle	0-4	Clay, silty clay	CL, MH	A-7	0	100	100	90-100	80-100	55-75	25-45
	4-24	Clay	CL, MH	A-7	0	100	100	90-100	80-100	55-75	25-45
	24-60	Clay	CL, MH	A-7	0	100	100	90-100	80-100	60-90	25-45
Lismas	0-5	Clay, silty clay	CH, MH	A-7	0	100	100	95-100	80-100	60-90	30-50
	5-9	Clay	CH, MH	A-7	0	90-100	75-100	70-100	60-100	60-90	30-50
	9-14	Clay	CH, MH	A-7	0	85-100	65-100	60-100	55-100	60-90	30-50
	14-60	Weathered bedrock	----	----	----	----	----	----	----	----	----
Midway	0-3	Clay, silty clay	CL, CH	A-7	0	75-100	75-100	70-100	70-95	40-60	20-35
	0-3	Clay loam, silty clay loam	CL	A-6	0	75-100	75-100	70-100	70-95	30-40	10-20
	0-3	Gravelly clay loam	CL, GH	A-6	0-5	50-75	50-75	50-75	45-70	30-40	10-20
	3-12	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	95-100	95-100	90-100	70-95	35-50	15-25
Tonra	12	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-3	Gravelly silty clay loam	CL	A-6	0-10	75-85	70-80	65-80	60-75	30-35	10-15
	0-3	Silty clay loam	CL	A-6	0-10	90-100	85-100	80-100	75-95	30-35	10-15
	3-11	Gravelly clay loam	SC, CL	A-6	0-10	75-85	70-80	50-70	45-65	30-35	10-15
Torchlight	11-23	Clay loam	CL	A-6	0-10	90-100	85-100	60-80	55-75	30-35	10-15
	23-29	Sandy clay loam	CL, SC	A-6	0-10	95-100	90-100	50-70	35-55	30-35	10-15
	29-60	Very cobbly COS	SM, SP-SM	A-1	0-10	70-85	60-80	15-35	5-25	----	NP
Torchlight	0-4	Silty clay loam	CL, CH	A-7	0	100	100	95-100	85-95	45-55	20-30
	0-4	Clay, silty clay	CL, CH	A-7	0	100	100	90-100	80-95	45-55	20-30
	4-60	Silty clay loam, silty clay	CL, CH	A-7	0	100	100	95-100	85-95	45-55	20-30

Table B-1. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Travessilla	0-4	Sandy loam, fine sandy loam	SM	A-2, A-4	0-5	85-100	80-100	60-80	25-40	15-25	NP-5
	0-4	Loam	CL-ML	A-4	0-5	85-100	80-100	70-90	50-70	20-25	5-10
	0-4	CN-loam, CN-sandy loam, gravelly fine clay loam	SM-SC, GM-GC, SM, GM	A-1, A-2, A-4	0-5	55-80	55-75	35-60	20-45	15-25	NP-10
	4-8	Loam, CN-loam, ST-loam	CL-ML, GM-GC, SM-SC	A-4	0-20	60-90	55-85	50-75	35-55	20-25	5-10
	8	Unweathered bedrock	----	----	----	----	----	----	----	----	----

a = Source: Soil Survey of Carbon County Area, Montana.

Source: See Glossary, Table A, for a description of properties.

Table B-2. Engineering Properties of Fremont County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Fell Ryan Park	0-3	Loamy fine sand	SM	A-2	0	85-100	85-100	60-80	15-35	----	NP
	3-17	Sandy loam, fine sandy loam	SM-SC, SM	A-2, A-4	0	85-100	85-100	60-70	30-50	20-30	NP-10
	17-60	Sandy loam, loamy sand loamy fine sand	SM	A-2, A-4	0	85-100	85-100	60-70	25-40	25-40	NP-5
F2d11 Bosler	0-6	Fine sandy loam	SM	A-4	0	80-100	75-100	55-85	35-50	20-30	NP-5
	6-21	Sandy clay loam, sandy loam	SC, SM-SC	A-6, A-4	0	80-100	75-100	65-85	35-50	25-35	5-15
	20-60	Very gravelly sand, very gravelly loamy sand	GP, GP-GM	A-1	0	25-40	25-40	5-25	0-10	----	NP
Ryan Park	0-3	Fine sandy loam	SM	A-2	0	85-100	85-100	65-80	30-50	----	NP
	3-12	Sandy loam, fine sandy loam	SM-SC, SM	A-2, A-4	0	85-100	85-100	60-70	30-50	20-30	NP-10
	12-60	Sandy loam, loamy sand, loamy fine sand	SM	A-2, A-4	0	85-100	85-100	60-70	25-40	15-20	NP-5
F3d11 Bosler	0-3	Sandy loam	SM	A-4	0	80-100	75-100	55-85	35-50	20-30	NP-5
	3-31	Sandy clay loam, sandy loam	SC, SM-SC	A-6, A-4	0	80-100	75-100	65-85	35-50	25-35	5-15
	31-60	Very gravelly sand, very gravelly loamy sand	GP, GP-GM	A-1	0	25-40	25-40	5-25	0-10	----	NP
Rock River	0-3	Sandy loam	SM	A-2, A-4	0-5	85-100	85-100	60-80	30-40	NP	
	3-13	Sandy clay loam, gravelly sandy clay loam	SC	A-6	0-5	90-100	70-100	60-90	35-45	NP-20	
	13-60	Sandy loam, fine sandy loam	SM, SC, ML, CL	A-2, A-6	0-5	85-100	85-100	60-75	25-55	NP-15	
F2g11 Emblem	0-2	Sandy Loam	SM	A-2	0	80-95	75-95	50-70	25-35	----	NP
	2-20	Loam, sandy clay loam	CL-ML	A-4	0	80-95	75-95	65-85	50-60	25-30	5-10
	20-60	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy sand	GP, GP-GM, GM	A-1	10-25	30-70	20-65	10-40	0-20	----	NP
Cliffsand	0-6	Very gravelly loam	GM, GM-GC	A-2, A-4	10-15	50-60	45-55	40-50	30-40	20-30	NP-10
	6-60	Very gravelly sandy loam, very gravelly loam	GM	A-1, A-2	10-25	35-60	30-55	20-45	10-35	15-25	NP-5

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Rairdent	0-2 2-7	Loam Loam, gravelly loam	CL-ML CL-ML, GM-GC, SM-SC GP-GM, GM	A-4 A-4	0-5 0-5	75-100 50-100	75-100 50-100	60-80 45-65	50-70 45-55	25-30 25-30	5-10 5-10
F2n11 Cliffsand	7-60	Clay loam, gravelly clay loam, loam	GP-GM, GM	A-6	0-5	50-100	50-100	40-70	5-25	35-45	15-20
Persayo	0-7 7-60	Gravelly loam Very gravelly sandy loam, very gravelly loam	GM, GM-GC, ML, CL-ML, GM	A-2, A-4 A-1, A-2	0-15 10-25	60-80 35-60	55-75 30-55	45-70 20-45	30-55 10-35	20-30 15-25	NP-10 NP-5
F2a32 Dahlquist	0-2 2-15 15	Loam Silt loam, clay loam Unweathered bedrock	CL-ML CL-ML, CL	A-4 A-4, A-6	0-10 0-10	80-100 80-100	75-100 75-100	75-95 75-95	50-80 60-85	25-30 25-40	5-10 5-20
Rock River	0-3 3-60	Very cobbly loam Very gravelly sandy clay loam, extremely gravelly sandy clay loam	GM-GC, SM-SC GC, GM-GC, SC, SM-SC	A-2, A-4 A-2	30-50 15-40	60-80 25-65	60-70 20-50	35-50 15-45	30-40 10-30	20-30 25-35	5-10 5-15
F2f72 Pesmore	0-4 4-21	Sandy loam Sandy clay loam, gravelly sandy clay loam	SM SC	A-2, A-4 A-6	0-5 0-5	85-100 90-100	85-100 70-100	60-80 60-90	30-45 35-45	----- 25-35	NP NP-20
F2f72 Pesmore	21-60	Sandy loam, fine sandy loam	SM, SC	A-2, A-6	0-5	85-100	85-100	60-75	25-55	15-30	NP-15
Rock outcrop	0-3	Very channery sandy loam	GM-GC	A-2	10-20	30-50	30-50	25-40	10-25	25-30	5-10
Asholler	3-12 12-24 24	Very channery loam Very channery loam Unweathered bedrock	GM, GM-GC GM, GM-GC	A-1, A-2 A-1, A-2	0-5 0-5	30-50 30-50	30-50 30-50	25-50 25-40	10-35 20-35	20-30 20-30	NP-10 NP-10
F2h72 Pensore	0-3 3-11 11-17 17	Channery loam Very channery loam Very channery sandy loam	ML GM GM	A-4 A-2 A-1	0-15 5-30 5-30	55-80 40-60 40-60	50-75 35-55 35-55	40-60 25-40 25-35	35-55 25-35 10-20	25-35 25-35 -----	NP-10 5-10 NP
F2h72 Pensore	0-3 3-11 11	Very channery loam Very channery loam Unweathered bedrock	GM, GC-GC GM, GC-GC	A-1, A-2 A-1, A-2	0-10 5-10	40-60 40-65	30-50 35-55	20-45 20-45	20-35 20-35	20-30 20-30	NP-10 NP-10

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Rock outcrop											
F2J72 Rallod	0-2 2-18 18	Loam Clay, sandy clay, clay loam Unweathered bedrock	ML CL ---	A-4 A-7 ---	0 0 ---	100 100 ---	100 100 ---	85-95 85-100 ---	55-65 60-90 ---	20-30 40-50 ---	NP-10 20-30 ---
Rock outcrop											
Seaverson	0-3 3-18 18	Loam Clay loam, loam Unweathered bedrock	--- CL ---	--- A-6 ---	--- 0 ---	--- 90-100 ---	--- 90-100 ---	--- 85-95 ---	--- 70-80 ---	--- 30-40 ---	--- 10-20 ---
F90 Zeomont	0-7 7-60	Loamy sand Sand, loamy sand	SM SM	A-1, A-2 A-1, A-2	0 0	100 100	100 100	40-60 40-60	15-25 10-20	---	NP NP
F101 Badland											
Seaverson	0-2 2-10 10	Clay loam Clay loam, loam Unweathered bedrock	CL CL ---	A-6 A-6 ---	0 0 ---	90-100 90-100 ---	90-100 90-100 ---	85-95 85-95 ---	70-80 70-80 ---	30-40 30-40 ---	10-20 10-20 ---
Blazon	0-2 2-19 19	Clay loam Clay loam Unweathered bedrock	CL --- ---	A-6 --- ---	0-5 5-10 ---	80-100 80-100 ---	80-100 80-100 ---	75-95 75-95 ---	50-75 60-75 ---	35-40 35-40 ---	15-20 15-20 ---
F102 Badland											
Birdsley	0-4 4-14 14	Sandy clay loam Clay loam, sandy clay loam, silty clay loam Unweathered bedrock	CL CL ---	A-6, A-7 A-6, A-7 ---	0 0 ---	95-100 95-100 ---	95-100 95-100 ---	80-95 80-100 ---	50-65 50-85 ---	30-45 30-40 ---	10-20 10-25 ---
F105 Rock outcrop											
Blazon	0-2 2-17 17	Clay loam Clay loam Unweathered bedrock	CL --- ---	A-6 --- ---	0-5 5-10 ---	80-100 80-100 ---	80-100 80-100 ---	75-95 75-95 ---	50-75 60-75 ---	35-40 35-40 ---	15-20 15-20 ---
F107 Rock outcrop											
Blackhall	0-2 2-12 12	Sandy loam Sandy loam, fine sandy loam, very fine sandy loam Unweathered bedrock	CL-ML SM ---	A-4 A-2, A-4 ---	0-5 0-5 ---	90-100 90-100 ---	90-100 85-100 ---	65-85 55-90 ---	60-70 30-50 ---	15-20 15-20 ---	5-10 NP-5 ---

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F201 Havre	0-4 4-60	Loam Stratified fine sandy loam to clay loam	CL-ML CL-ML, CL	A-4 A-7	0 0	100 100	100 100	80-95 80-95	60-90 60-80	20-30 20-35	5-10 5-15
Forelle	0-5 5-19 19-60	Loam Clay loam, loam, sandy clay loam Stratified loamy sand to loam	CL-ML, ML CL SM	A-4 A-6 A-2, A-4	0-10 0-10 0-10	85-100 85-100 85-100	85-100 85-100 85-100	75-100 80-100 70-90	55-75 50-80 30-40	25-35 25-35 ----	5-10 10-15 NP
Glendive	0-4		ML, CL-ML	A-4, A-6	0	100	100	75-95	65-80	20-30	NP-10
F203 Venapass	0-3 3-30 30-60	Loam Loam Gravelly coarse sandy loam	CL, CL-ML CL, CL-ML GM, SM	A-4, A-6 A-6, A-4 A-1	0 0 0-10	90-100 90-100 60-80	90-100 90-100 50-75	70-80 70-80 30-50	55-65 55-65 20-35	25-35 25-35 20-25	5-15 5-15 NP-5
Silas	0-16 16-60	Loam Stratified loam to clay loam	ML ML	A-4 A-4	0-10 0-10	90-100 90-100	90-100 90-100	80-95 80-95	60-85 60-85	15-25 15-25	NP-5 NP-5
F205 Iceslew	0-2 2-32 32-60	Loam, sandy loam Stratified sandy loam to silty clay loam	ML, CL-ML CL-ML CL	A-4 A-4 A-6	0 0 0	90-100 90-100 80-100	90-100 90-100 80-100	85-100 60-85 75-95	60-75 60-85 50-75	20-30 20-30 25-35	NP-10 NP-10 10-15
Countryman	0-2 2-21 21-60	Loam Very fine sandy loam Stratified loamy sand to clay loam	CL-ML, ML SM, ML SM	A-4 A-4 A-4	0 0 0	90-100 90-100 90-100	85-100 85-100 85-100	65-85 80-95 45-65	60-70 40-60 35-50	20-30 15-25 15-25	NP-10 NP-5 NP-5
F206 Youngston	0-6 6-60	Loam Stratified very fine sandy loam to silty clay loam	CL-ML, CL CL	A-4, A-6 A-6	0 0	95-100 100	95-100 100	75-95 95-100	60-80 70-85	25-35 35-40	5-15 15-20
Lostwells	0-5 5-60	Loam Stratified sandy loam to clay loam	ML SC, SM-SC	A-4 A-6, A-4	0-5 0-5	80-100 80-100	80-100 80-100	70-90 70-100	50-75 35-50	30-35 30-40	5-10 5-15
Apron	0-4 4-60	Sandy loam Fine sandy loam, sandy loam	SM SM	A-2, A-4 A-2, A-4	0 0	75-100 75-100	75-100 75-100	65-75 65-75	30-45 35-45	15-25 15-25	NP-5 NP-5
F206F Youngston	0-6 6-60	Loam Stratified very fine sandy loam to silty clay loam	CL-ML, CL CL	A-4, A-6 A-6	0 0	95-100 100	95-100 100	75-95 95-100	60-80 70-85	25-35 35-40	5-15 15-20

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Lostwells	0-5 5-60	Loam Stratified sandy loam to clay loam	ML SC, SM-SC	A-4 A-6, A-4	0-5 0-5	80-100 80-100	80-100 80-100	70-90 70-100	50-75 35-50	30-35 30-40	5-10 5-15
Apron	0-4 4-60	Sandy loam Fine sandy loam, sandy loam	SM SM	A-2, A-4 A-2, A-4	0 0	75-100 75-100	75-100 75-100	65-75 65-75	30-45 30-45	15-25 15-25	NP-5 NP-5
F209 Harve	0-3 3-60	Loam Stratified fine sand loam to clay loam	CL-ML CL-ML, CL	A-4 A-7	0 0	100 100	100 100	80-95 80-95	60-90 60-80	20-30 20-35	5-10 5-10
Absher	0-3 3-24 24-60	Loam Clay, silty clay, silty clay loam Stratified loam to clay	ML CL, CH CL	A-4 A-6, A-7 A-6	0 0 0	95-100 95-100 95-100	95-100 95-100 95-100	75-85 90-100 80-95	60-70 80-95 60-75	20-30 35-55 30-40	NP-10 20-35 15-25
Forelle	0-8 8-32 32-60	Loam Clay loam, loam, sandy clay loam Stratified loamy sand to loam	CL-ML, ML CL SM	A-4 A-6 A-2, A-4	0-10 0-10 0-10	85-100 85-100 85-100	85-100 85-100 85-100	75-100 80-100 70-90	55-75 50-80 30-40	25-35 25-35 ----	5-10 10-15 NP
F217 Sandbranch	0-2 2-17 17-34 34-60	Loam Sandy clay loam, clay loam, loam Loam, clay loam, sandy clay loam Stratified sandy loam to clay loam	CL-ML CL-ML, CL CL-ML, CL CL-ML	A-4 A-4, A-6 A-4, A-6 A-4	0 0 0 0	95-100 95-100 95-100 95-100	95-100 95-100 95-100 95-100	70-85 60-80 60-80 70-85	60-70 50-65 50-65 60-70	20-30 25-40 25-40 20-30	5-10 5-15 5-15 5-10
Ryan Park Variant	0-6 6-23 23 48-55 55	Loamy fine sand Fine sandy loam Fine sandy loam Fine sandy loam Unweathered bedrock	SM SM SM SM ----	A-2 A-4 A-4 A-4 ----	0 0 0 0 ----	90-100 90-100 90-100 90-100 ----	90-100 90-100 90-100 90-100 ----	75-95 75-95 75-95 75-95 ----	20-35 35-50 35-50 35-50 ----	----- 20-25 20-25 20-25 -----	NP NP-5 NP-5 NP-5 ----
Poposhia	0-10 10-60	Loam Loam, clay loam, sandy clay loam	CL-ML, CL CL	A-4, A-6 A-6	0 0	85-100 85-100	75-100 75-100	70-100 70-90	60-70 50-85	25-35 25-40	5-15 10-20
F218 Griffy	0-6 6-13 13-60	Sandy loam Sandy clay loam, gravelly sandy clay loam Sandy loam, loamy sand, fine sandy loam	SM CL, GC SM	A-2, A-4 A-2, A-6 A-1, A-2	0 0 0	80-100 50-100 75-100	80-100 50-100 75-100	60-70 40-90 60-75	30-40 25-55 15-25	15-20 25-35 ----	NP-5 10-15 ----

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Saddle	0-2	Sandy loam	SM	A-2, A-4	0	75-100	75-100	50-70	30-40	20-25	NP-5
	2-13	Sandy clay loam	SC, CL	A-4, A-6	0	75-100	75-100	65-90	35-60	30-40	10-20
	13-33	Sandy loam, fine sandy loam	SM, ML, SM-SC, CL-ML	A-4	0	75-100	75-100	55-75	35-65	20-30	NP-10
Wallson	33	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-70	30-55	20-25	NP-5
	30	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Loamy fine sand	SM	A-2	0	75-100	75-100	50-75	15-30	----	NP
F227 Brownsto	4-60	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-75	30-45	----	NP
	0-8	Very gravelly sandy loam, very gravelly sand	GC	A-2, A-6	15-35	50-80	50-75	35-60	25-45	30-40	10-20
	8-24	Very gravelly sandy loam, extremely gravelly sand	GM-GC, GC	A-2	20-40	30-65	25-65	15-50	10-35	25-35	5-15
Decross Variant	24-60	Very cobbly sandy loam, very cobbly sandy clay loam, extremely cobbly sandy loam	GM-GC, GC, SM-SC, SC	A-2	30-55	40-70	35-70	25-55	15-35	25-35	5-15
	0-2	Sandy loam	SM	A-2	0	80-100	75-100	50-70	15-25	20-25	NP-5
	2-14	Sandy clay loam	SC, CL	A-6	0	80-100	75-100	60-80	45-55	25-35	10-15
Brownsto	14-60	Sandy clay loam	SC, CL	A-6	0	80-100	75-100	60-80	45-55	30-35	10-15
	0-4	Sandy loam	SM, SM-SC	A-4	0-5	85-95	85-95	35-50	15-25	NP-10	
	4-22	Loam, sandy clay loam, gravelly sandy clay loam	CL-ML, CL, SM-SC, SC	A-4, A-6	0-5	70-90	65-90	35-70	25-35	5-15	
F230 Thermopolis	22-60	Very gravelly sandy loam, very gravelly loam, very gravelly sandy clay loam	GM-GC, GC	A-1, A-2	0-5	50-60	45-50	10-35	15-25	NP-15	
	0-2	Loam	ML	A-4	0	80-100	80-100	70-90	50-70	20-25	NP-5
	2-10	Loam, silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	80-100	80-100	70-90	65-85	20-35	5-15
Sinkson	10	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-14	Loam	CL-ML, ML	A-4	0	95-100	95-100	90-95	70-85	20-30	NP-10
	14-60	Loam, clay loam, silt loam	CL-ML, ML	A-4, A-6	0	95-100	95-100	80-90	60-70	25-35	5-15

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F231 Crango	0-3	Gravelly loam	GM-GC, GC, CL-ML	A-4, A-6	0-10	60-75	55-70	50-65	35-55	20-30	NP-10
	3-60	Extremely gravelly loam, very gravelly clay loam, extremely gravelly sandy loam	GM, GM-GC, GP-GM	A-1, A-2	0-15	25-45	15-35	10-25	5-20	20-30	NP-10
Pensore	0-13 13	Unweathered bedrock	SM, SM-SC	A-4	0-10	70-80	60-75	50-65	35-50	20-30	NP-10
F234 Sinkson	0-4 4-60	Loam Silty clay loam	CL-ML, ML CL, SC	A-4 A-6	0 0	95-100 95-100	95-100 95-100	90-95 60-80	70-85 45-55	20-30 30-35	NP-10 10-15
	0-10 10-60	Loam Clay loam, sandy clay loam, loam	CL CL, CL-ML	A-6 A-6, A-4	0 0	80-100 80-100	75-100 75-100	55-80 55-80	50-65 50-70	30-35 25-40	10-15 5-15
Thermopolis	0-3 3-16	Loam, silt loam, silty clay loam	ML CL, CL-ML	A-4 A-4, A-6	0 0	80-100 80-100	80-100 80-100	70-90 70-90	50-70 65-85	20-25 20-35	NP-5 5-15
	16	Unweathered bedrock									
F237 Uffens	0-4 4-40	Loam Sandy clay loam, clay loam, silty clay loam	CL-ML SC, CL	A-4 A-6	0 0	100 100	100 100	85-100 80-100	65-85 40-85	25-30 30-40	5-10 10-20
	40-60	Sand, loamy sand	SP-SM, SM	A-2, A-3	0	100	100	50-70	5-30		NP
Muff	0-2 2-20	Loam Sandy clay loam, clay loam, silty clay loam	ML, CL-ML SC, CL	A-4 A-6	0 0	95-100 90-100	90-100 75-100	85-95 60-80	50-70 30-75	20-30 35-40	NP-10 10-20
	20-29 29	Sandy clay loam Unweathered bedrock	SC ----	A-6 ----	0 ----	90-100 ----	75-100 ----	65-90 ----	30-50 ----	30-35 ----	10-15 ----
Frisite	0-6 6-42 42-60	Loam Clay loam Silty clay loam	ML, CL-ML CL CL	A-4 A-6 A-6	0 0 0	100 100 90-100	100 100 85-100	65-85 80-95 75-95	60-75 70-85 70-90	20-30 30-40 30-40	NP-10 10-15 10-15
	0-4 4-60	Sandy loam Fine sandy loam, sandy loam	SM SM	A-2, A-4 A-2, A-4	0 0	75-100 75-100	75-100 75-100	65-75 65-75	30-45 30-45	15-25 15-25	NP-5 NP-5
Lostwells	0-5 5-60	Loam Stratified sandy loam to clay loam	ML SC, SM-SC	A-4 A-6, A-4	0-5 0-5	80-100 80-100	80-100 80-100	70-90 70-100	50-75 35-50	30-35 30-40	5-10 5-15
F248 Frisite	0-3 3-16 16-60	Fine sandy loam Clay loam Clay loam, loam	SM, SM-SC CL CL	A-4 A-6 A-6	0 0 0	100 100 80-100	100 100 85-100	75-95 80-95 60-75	35-50 70-85 55-70	20-30 30-40 30-40	NP-10 10-15 10-15

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Youngston	0-4 4-60	Loam Stratified very fine sandy loam to silty clay loam	CL-ML CL	A-4 A-6	0 0	100	100	70-80	55-65	20-30	5-10
						100	100	80-100	60-80	30-40	10-20
F267 Almy	0-2 2-60	Loam Clay loam, sandy clay loam, loam Gravelly sandy loam	CL CL, CL-ML SM, GM	A-6 A-6, A-4 A-2	0 0 0	80-100	75-100	55-80	50-65	30-35	10-15
						80-100	75-100	55-80	50-70	25-40	5-15
Monbutte	0-4 4-23	Fine sandy loam Clay, clay loam, silty clay loam	ML, SM CL, CH	A-4 A-7	0 0	90-100	90-100	85-95	45-55	20-25	NP-5
						90-100	90-100	80-95	75-90	40-65	20-35
Rallod	23-60	Sandy clay loam, clay loam Very fine sandy loam	CL, SC ML	A-6 A-4	0 0	90-100	90-100	60-85	45-75	30-35	10-15
						100	100	85-95	55-65	20-30	NP-10
F270 Poposhia	0-4 4-7	Loam Clay loam, loam	CL CL	A-6 A-7	0 0	100	100	65-85	60-75	30-35	10-15
						100	100	85-100	60-90	40-50	20-30
Blazon	15-18 18	Sandy clay loam Unweathered bedrock	CL ----	A-6 ----	0 ----	100	100	55-75	50-65	30-35	10-15
						----	----	----	----	----	----
F270 Poposhia	0-3 3-10	Loam Clay loam, loam	CL-ML, CL CL	A-4, A-6 A-6	0 0	85-100	75-100	70-100	60-70	25-35	5-15
						85-100	75-100	75-95	50-85	25-40	10-20
Blazon	10-60	sandy clay loam Clay loam Clay loam Unweathered bedrock	CL ---- ----	A-6 ---- ----	0-5 5-10 ----	80-100	80-100	75-95	50-75	35-40	15-20
						80-100	80-100	75-95	60-75	35-40	15-20
Carmody	0-4 4-17	Clay loam Clay loam Unweathered bedrock	ML, SM ML, SM	A-4 A-4	0-5 0-5	75-100	75-100	65-90	45-55	20-25	NP-5
						75-100	75-100	65-85	45-55	20-25	NP-5
F271 Persayo	16-25 25	Silt loam, loam Unweathered bedrock	ML ----	A-4 ----	0-5 ----	75-100	75-100	65-85	60-70	30-35	5-10
						----	----	----	----	----	----
Rock Outcrop	0-3 3-16	Clay loam Silt loam, clay loam Unweathered bedrock	CL CL-ML, CL ----	A-6 A-4, A-6 ----	0-10 0-10 ----	80-100	75-100	75-95	60-85	25-40	10-20
						80-100	75-100	75-95	60-85	25-40	5-20

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F272 Blackhall	0-2	Fine sandy loam	CM-ML	A-4	0-5	90-100	90-100	65-85	60-70	15-20	5-10
	2-17	Sandy loam, fine sandy loam, very fine sandy loam	SM	A-2, A-4	0-5	90-100	85-100	55-90	30-50	15-20	NP-5
Carmody	17	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Fine sandy loam	ML, SM	A-4	0-5	75-100	75-100	65-90	45-55	20-25	NP-5
	4-24	Fine sandy loam, very fine sandy loam, sandy loam	ML, SM	A-4	0-5	75-100	75-100	65-85	45-55	20-25	NP-5
	24	Unweathered bedrock	----	----	----	----	----	----	----	----	----
F274 Oceanet	0-4	Sandy loam	SM	A-2, A-1	0-5	75-100	75-100	45-65	20-30	15-20	NP-5
	4-18	Sandy loam	SM, GM	A-1, A-2	0-5	55-80	50-75	35-55	20-35	15-20	NP-5
Rock Outcrop	18	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Persayo	0-2	Loam	CL-ML	A-4	0-10	80-100	75-100	75-95	50-80	25-30	5-10
	2-13	Silt loam	CL-ML	A-4	0-10	80-100	75-100	75-95	60-85	25-40	5-10
	13	Unweathered bedrock	----	----	----	----	----	----	----	----	----
F277 Diamondville	0-2	Loam	CL-ML	A-4	0-5	95-100	90-100	85-95	60-75	25-30	5-10
	2-13	Clay loam, loam, sandy clay loam	CL	A-6	0-5	95-100	90-100	85-95	70-80	30-40	10-20
	13-24	Loam	CL-ML, ML	A-4	0-5	95-100	90-100	85-95	60-75	20-30	NP-10
	15	Weathered bedrock	----	----	----	----	----	----	----	----	----
Forelle	0-6	Loam	CL-ML	A-4	0-10	85-100	85-100	75-100	55-75	25-35	5-10
	6-22	Clay loam, loam, sandy clay loam	CL	A-6	0-10	85-100	85-100	80-100	50-80	25-35	10-15
	22-60	Loam	CL-ML, ML	A-4	0-10	85-100	85-100	75-100	55-75	25-35	5-10
F289 Rock inchair	0-4	Fine sandy loam	SM	A-2	0-5	85-100	80-100	70-80	20-30	----	NP
	4-32	Sandy clay loam, clay loam, loam	CL	A-6	0	80-100	80-100	60-90	50-70	30-40	10-20
	32	Weathered bedrock	----	----	----	----	----	----	----	----	----
Rock outcrop											
Sinkson	0-6	Loam	CL-ML, ML	A-4	0	95-100	95-100	90-95	70-85	20-30	NP-10
	6-60	Silty clay loam	CL, SC	A-6	0	95-100	95-100	60-80	45-55	30-35	10-15

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F291 Cushool	0-3	Sandy loam	SM	A-4	0	80-100	75-100	50-75	35-50	15-25	NP-5
	3-23	Sandy clay loam	SC	A-6	0	85-100	80-100	55-80	35-50	30-40	10-15
Rock River	23-35	Sandy loam, very fine sandy loam	SM, ML	A-2, A-4	0	85-100	80-100	55-95	30-60	15-25	NP-5
	35	Unweathered bedrock	----	----	----	----	----	----	----	----	----
F293 Cragosen	0-3	Fine sandy loam	SM	A-2, A-4	0-5	85-100	85-100	60-80	30-45	----	NP
	3-34	Sandy clay loam, gravelly sandy clay loam	SC	A-6	0-5	90-100	70-100	60-90	35-45	25-35	NP-20
F293 Cragosen	34-60	Sandy loam, fine sandy loam	SM, SC ML, CL	A-2, A-6	0-5	85-100	85-100	60-75	25-55	15-30	NP-15
	0-4	Gravelly loam	CL-ML, ML, GM, GM-GC	A-4	5-10	65-85	60-75	45-60	40-55	20-30	NP-10
Rock outcrop	4-19	Very gravelly loam, extremely gravelly loam, very gravelly sandy loam	GM-GC	A-2, A-4 A-1	15-30	30-55	25-55	20-50	10-40	20-30	NP-10
	19	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Carmody	0-1	Sandy loam	ML, SM	A-4	0-5	75-100	75-100	65-90	45-55	20-25	NP-5
	1-35	Silt loam, loam	ML	A-4	0-5	75-100	75-100	65-85	60-70	30-35	5-10
F294 Forelle	35	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-2	Loam	CL-ML, ML CL	A-4 A-6	0-10	85-100	85-100	75-100	55-75	25-35	5-10
Poposhia	2-16	Clay loam, loam, sandy clay loam	CL	A-6	0-10	85-100	85-100	80-100	50-80	25-35	10-15
	16-24	Loam	CL-ML, ML SM	A-4 A-2, A-4	0-10	85-100	85-100	75-100	55-75	25-35	5-10
F297 Birdsley	24-60	Stratified loamy sand to loam	SM	A-2, A-4	0-10	85-100	85-100	70-90	30-40	----	NP
	0-3	Clay loam	CL	A-6	0	85-100	75-100	70-100	60-80	35-40	15-20
F297 Birdsley	3-15	Clay loam, loam	CL	A-6	0	85-100	75-100	75-95	50-85	25-40	10-20
	15-60	Loam, clay loam, sandy clay loam	CL	A-6	0	85-100	75-100	70-90	50-85	25-40	10-20
F297 Birdsley	0-2	Sandy clay loam	CL	A-6, A-7	0	95-100	95-100	80-95	50-65	30-45	10-20
	2-13	Clay loam, sandy clay loam, silty clay loam	CL	A-6, A-7	0	95-100	95-100	80-100	50-85	30-40	10-25
F297 Birdsley	13	Unweathered bedrock	----	----	----	----	----	----	----	----	----

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Mudray	0-2	Sandy loam	SM	A-2	0	75-100	75-100	50-70	25-35	20-25	NP-5
	2-12					75-100	75-100	70-100	50-90		
F298 Blazon	12-19	Clay loam, silty clay loam	CL	A-6	0	75-100	75-100	65-95	65-85	45-55	20-30
	19					75-100	75-100	65-95	65-85		
Rock outcrop	0-2	Clay loam	CL	A-6	0-5	80-100	80-100	75-95	50-75	35-40	15-20
	2-19										
Camdoby	0-5	Gravelly sandy loam	GM, SM	A-2	0-5	50-75	50-75	30-50	25-35	20-25	NP
	5-20										
F301 Binton	0-3	Clay loam	CL	A-6	0-5	95-100	95-100	70-85	60-75	35-40	15-20
	3-60										
Youngston	0-2	Clay loam	CL	A-6	0	100	100	90-100	70-80	30-40	10-20
	2-60										
F306 Youngston	0-3	Loam	CL-ML	A-4	0	100	100	70-80	55-65	20-30	5-10
	3-60										
Effington	0-4	Loam	CL	A-6	0	75-100	75-100	65-95	55-75	30-40	10-20
	4-25										
F309 Havre	25-60	Clay loam, clay, silty clay loam	CL-ML, CL	A-4, A-6	0	75-100	75-100	65-90	50-70	25-40	5-20
	25-60										
Havre Variant	0-2	Stratified fine sandy loam to clay loam	CL-ML	A-4	0	100	100	80-95	60-90	20-30	5-10
	2-60										
Elko1	0-8	Stratified sand to clay loam	SP-SM, SM	A-1	0	100	80-100	30-50	5-15	25-35	NP
	8-60										
Elko1	0-2	Clay, clay, silty clay, clay loam	CH	A-7	0-5	95-100	95-100	90-100	70-90	50-65	20-35
	2-60										

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F311 Ryan Park	0-5	Sandy loam	SM	A-2	0	85-100	85-100	65-80	30-50	----	NP
	5-27	Sandy loam, fine sandy loam	SM-SC, SM	A-2, A-4	0	85-100	85-100	60-70	30-50	20-30	NP-10
Carmody	27-60	Fine sandy loam, loamy sand, sandy loam	SM	A-2	0	80-95	75-90	60-80	15-30	----	NP
	0-5	Sandy loam	ML, SM	A-4	0-5	75-100	75-100	65-90	45-55	20-25	NP-5
	5-38	Fine sandy loam, very fine sandy loam, sandy loam	ML, SM	A-4	0-5	75-100	75-100	65-85	45-55	20-25	NP-5
	38	Weathered bedrock	----	----	----	----	----	----	----	----	----
F340 Tisworth	0-13	Loamy sand	SM	A-2	0	90-100	85-100	50-65	20-30	----	NP
	13-27	Loam, sandy clay loam, clay loam	SL, CL	A-6	0	75-100	75-100	65-95	35-75	25-35	10-20
	27-60	Stratified sandy clay loam to loamy sand	SM, SM-SC	A-1, A-2 A-4	0	80-100	75-100	40-80	20-50	15-30	NP-10
Ryan Park	0-4	Sandy loam	SM	A-2	0	85-100	85-100	65-80	30-50	----	NP
	4-60	Sandy loam, fine sandy loam	SM-SC, SM	A-2, A-4	0	85-100	85-100	60-70	30-50	20-30	NP-10
Countryman	0-2	Fine sandy loam	SM	A-2, A-4	0	90-100	85-100	75-85	30-40	15-25	NP-5
	2-60	Stratified loamy sand to clay loam	SM	A-4	0	90-100	85-100	45-65	35-50	15-25	NP-5
F342 Apron	0-8	Loamy sand	SM	A-2	0	75-100	75-100	50-70	15-25	----	NP
	8-60	Fine sandy loam, sandy loam	SM	A-2, A-4	0	75-100	75-100	65-75	30-45	15-25	NP-5
Wallson	0-8	Sandy loamy	SM	A-2, A-4	0	75-100	75-100	50-75	30-45	----	NP
	8-60	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-75	30-45	----	NP
Worland	0-5	Loamy sand	SM	A-2, A-1	0	75-100	75-100	40-60	15-30	----	NP
	5-25	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-75	25-45	20-25	NP-5
	25	Unweathered bedrock	----	----	----	----	----	----	----	----	----
F348 Frisite	0-3	Loam	ML, CL-ML	A-4	0	100	100	65-85	60-75	20-30	NP-10
	3-23	Clay loam	CL	A-6	0	100	100	80-95	70-85	30-40	10-15
	23-60	Clay loam, loam	CL	A-6	0	90-100	85-100	60-75	55-70	30-40	10-15
Emblem	0-3	Loam	CL-ML	A-4	0	80-95	75-95	65-90	50-75	25-30	5-10
	3-21	Loam, sandy clay loam	CL-ML	A-4	0	80-95	75-95	65-85	50-60	25-30	5-10
	21-60	Very gravelly loamy sand, very gravelly loamy sand, extremely gravelly loamy sand	GP, GP-GM, GM	A-1	10-25	30-70	20-65	10-40	0-20	----	NP

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F372 Cragosen	0-6	Gravelly loam	CL-ML, ML, GM, GM-GC, GM	A-4	5-10	65-85	60-75	45-60	40-55	20-30	NP-10
	6-12	Very gravelly fine sandy loam		A-1	5-10	40-55	35-50	25-40	10-20	----	NP
	12	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Carmody	0-1	Gravelly sandy loam	GM, SM	A-2	0-5	50-75	50-75	30-50	25-35	----	NP
	1-22	Fine sandy loam, very fine sandy loam, sandy loam	ML, SM	A-4	0-5	75-100	75-100	65-85	45-55	20-25	NP-5
	22	Weathered bedrock	----	----	----	----	----	----	----	----	----
Blazon	0-3	Sandy clay loam	CL	A-6	0-5	80-100	80-100	75-95	50-75	35-40	15-20
	3-15	Clay loam	----	----	5-10	80-100	80-100	75-95	60-75	35-40	15-20
	15	Unweathered bedrock	----	----	----	----	----	----	----	----	----
F375 Worland	0-3	Sandy loam	SM	A-2	0	75-100	75-100	50-65	25-35	20-25	NP-5
	3-34	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-75	25-45	20-25	NP-5
	34	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Oceanet	0-8	Sandy loam	SM	A-2, A-1	0-5	75-100	75-100	45-65	20-30	15-20	NP-5
	8-19	Fine sandy loam, sandy loam	SM, GM	A-1, A-2	0-5	55-80	50-75	35-55	20-35	15-20	NP-5
	19	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Persayo	0-6	Silty clay loam	CL	A-6	0-10	80-100	75-100	75-95	60-85	25-40	10-20
	6-18	Silt loam, clay loam	CL-ML, CL	A-4, A-6	0-10	80-100	75-100	75-95	60-85	25-40	5-20
	18	Unweathered bedrock	----	----	----	----	----	----	----	----	----
F390 Ryark	0-6	Loamy sand	SM	A-1, A-2	0	85-100	75-100	40-70	15-30	----	NP
	6-13	Sandy loam	SM-SC	A-2	0	85-100	75-100	50-70	20-35	20-25	5-10
	13-60	Loamy sand	SM	A-1, A-2	0	85-100	75-100	40-70	15-30	----	NP
Zeomont	0-7	Loamy sand	SM	A-1, A-2	0	100	100	40-60	15-25	----	NP
	7-60	Sand, loamy sand	SM	A-1, A-2	0	100	100	40-60	10-20	----	NP
F393 Blackhall	0-2	Loam	SM	A-4	0-5	90-100	90-100	75-85	45-60	15-20	NP-5
	2-11	Sandy loam, fine sandy loam, very fine sandy loam	SM	A-2, A-4	0-5	90-100	85-100	55-90	30-50	15-20	NP-5
	11	Weathered bedrock	----	----	----	----	----	----	----	----	----
Rock outcrop											

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F406 Youngston	0-4 4-60	Loam Stratified very fine sandy loam to silty clay loam	CL-ML CL	A-4 A-6	0 0	100 100	100 100	70-80 80-100	55-65 60-80	20-30 30-40	5-10 10-20
Persayo	0-2 2-10 10	Loam Silt loam, clay loam Unweathered bedrock	CL-ML CL-ML, CL ----	A-4 A-4, A-6 ----	0-10 0-10 ----	80-100 80-100 ----	75-100 75-100 ----	75-95 75-95 ----	50-80 60-85 ----	25-30 25-40 ----	5-10 5-20 ----
F409 Absher	0-1 1-40 40-60	Loam Silty clay, clay, clay loam Stratified clay to loamy sand	CL-ML CL, CH CL, CH	A-4 A-7 A-7	0 0 0	95-100 95-100 95-100	75-100 75-100 75-100	65-90 70-100 60-80	50-80 60-95 55-75	20-30 40-60 40-55	5-10 20-40 20-35
Elkol	0-2 2-54 54-60	Silty clay loam Silty clay, clay, clay loam Very fine sandy loam, loam	CL CL, CH ML, CL-ML	A-7 A-7 A-4	0-5 0-5 0-5	95-100 95-100 95-100	95-100 95-100 95-100	90-100 90-100 40-100	70-90 70-90 60-75	40-50 40-65 20-30	15-20 15-35 NP-10
F469 Absher	0-4 4-9 9-60	Loam Silty clay, clay, clay loam Stratified clay to loamy sand	CL-ML CL, CH CL, CH	A-4 A-7 A-7	0 0 0	95-100 95-100 95-100	75-100 75-100 75-100	65-90 70-100 60-80	50-80 60-95 55-75	20-30 40-60 40-55	5-10 20-40 20-35
Poposhia	0-4 4-14 14-60	Loam Clay loam, loam Loam, clay loam, sandy clay loam	CL-ML, CL CL CL	A-4, A-6 A-6 A-6	0 0 0	85-100 85-100 85-100	75-100 75-100 75-100	70-100 75-95 70-90	60-70 50-85 50-85	25-35 25-40 25-40	5-15 10-20 10-20
Sinkson	0-9 9-28 28-60	Sandy clay loam Silty clay, loam Gravelly loam	CL, SC CL, SC CL-ML, GM-GC, ML, GM	A-6 A-6 A-2, A-4	0 0 0-10	95-100 95-100 60-80	95-100 95-100 50-75	60-80 60-80 40-70	45-55 45-55 30-60	30-35 30-35 20-30	10-15 10-15 NP-10
F493 Cragosen	0-6 6-10 10	Gravelly loam Very gravelly loam, extremely gravelly loam, very gravelly sandy loam Unweathered bedrock	CL-ML, ML, GM, GM-GC GM-GC ----	A-4 A-2, A-4, A-1 ----	5-10 15-30 ----	65-85 30-55 ----	60-75 25-55 ----	45-60 20-50 ----	40-55 10-40 ----	20-30 20-30 ----	NP-10 NP-10 ----

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Bosler	0-2	Sandy loam	SM	A-4	0	80-100	75-100	55-85	35-50	20-30	NP-5
	2-22	Sandy clay loam, sandy loam	SC, SM-SC	A-6, A-4	0	80-100	75-100	65-85	35-50	25-35	5-15
	22-60	Very gravelly sand, very gravelly loamy sand	GP, GP-GM	A-1	0	25-40	25-40	5-25	0-10	----	NP
Cushool	0-3	Sandy loam	SM	A-4	0	80-100	75-100	50-75	35-50	15-25	NP-5
	3-23	Sandy clay loam	SC	A-6	0	85-100	80-100	55-80	35-50	30-40	10-15
	23-36	Sandy loam, fine sandy loam, very fine sandy loam	SM, ML	A-2, A-4	0	85-100	80-100	55-95	30-60	15-25	NP-5
F507 Quander	36	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-3	Cobbly loam	SM	A-4, A-2	15-30	70-85	45-60	40-55	30-45	25-40	NP-10
	3-60	Very stony loam, very stony sandy clay loam, very cobbly sandy clay loam	SC, GC	A-2	25-55	50-75	35-60	30-50	20-30	25-40	10-20
Youga	0-7	Loam	CL-ML, CL	A-4, A-6	0-10	75-95	75-90	70-80	50-60	20-30	5-15
	7-28	Clay loam, sandy clay loam	CL, SC	A-6	0-25	80-90	75-90	60-75	45-65	25-35	10-20
	28-60	Sandy clay loam, clay loam	SC, CL	A-2, A-6	0-5	80-100	75-100	40-70	30-70	25-35	10-20
Onason	0-11	Sandy loam	SM	A-2	0	80-100	75-100	50-70	25-35	20-25	NP-5
	11	Weathered bedrock	----	----	----	----	----	----	----	----	----
F607 Youga	0-14	Loam	CL-ML, CL	A-4, A-6	0-10	75-95	75-90	70-80	50-60	5-15	5-15
	14-60	Clay loam, sandy clay loam	CL, SC	A-6	0-25	80-90	75-90	60-75	45-65	10-20	10-20
Quander	0-3	Cobbly loam	SM	A-4, A-2	15-30	70-85	45-60	40-55	30-45	25-40	NP-10
	3-43	Very stony loam, very stony sandy clay loam, very cobbly sandy clay loam	SC, GC	A-2	25-55	50-75	35-60	30-50	20-30	25-40	10-20
F672 Bluerim	0-3	Sandy loam	SM	A-2	0	95-100	75-90	50-70	25-35	20-30	NP-5
	3-12	Sandy clay loam	SM	A-2, A-4	0	95-100	75-90	60-75	30-40	25-35	5-10
	12-36	Sandy loam	SM	A-2	0	95-100	75-90	50-70	25-35	----	NP
Onason	36	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-2	Gravelly sandy loam	SM	A-1, A-2	0	60-85	50-75	30-55	15-30	20-25	NP-5
	2-17	Gravelly sandy loam	SM	A-1, A-2	0	60-75	50-75	35-50	15-30	20-25	NP-5
	17	Weathered bedrock	----	----	----	----	----	----	----	----	----

Table B-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
F700, 70 Burnette	0-2		GM-GC, SM-SC, CL-ML	A-4	0-15	65-80	60-75	50-70	35-60	20-30	5-10
	2-8	Very gravelly loam, very gravelly silt loam	GM-GC	A-2, A-4	0-25	45-55	40-50	35-50	25-40	20-30	5-10
	8-60	Very gravelly loam, very gravelly sandy loam	GM	A-2, A-1	0-25	45-55	40-50	30-45	20-35	20-30	NP-5
F995, 584 Ryark	0-5	Sandy loam	SM	A-1, A-2	0	85-100	75-100	45-65	20-30	----	NP
	5-27	Sandy loam	SM-SC	A-2	0	85-100	75-100	50-70	20-35	20-25	5-10
	27-60	Gravelly sand, gravelly loamy sand	SP-SM	A-1	0	70-80	50-60	30-40	5-10	----	NP
FMS		Dumps, Mine									

a = Source: Data from Draft Fremont County, Eastern Part Soil Survey.

Source: See Glossary, Table A, for a description of properties.

Table B-3. Engineering Properties of Hot Springs County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS47 Petrie	0-4	Clay loam, silty clay loam	CL	A-7	0	80-100	75-100	75-100	60-80	41-45	20-25
	4-60	Clay loam, Clay, silty clay	CL, CH	A-7	0	80-100	75-100	75-100	60-95	41-55	25-35
Cadoma	0-4	Loam, silty clay loam, clay, silty clay	CL, CH	A-7, A-6	0	95-100	95-100	80-90	75-85	41-55	25-35
	4-34	Clay, clay loam, silty clay, silty clay loam	CL, CH	A-7	0	100	100	80-90	75-85	41-55	25-35
Epsie (b)	0-2	Clay	CL, CH	A-7	0	100	100	75-95	70-90	40-55	20-30
	2-18 18	Clay Clay Weathered Bedrock	CH ----	A-7 ----	0 ---	100 ----	100 ----	75-95 ----	70-90 ----	50-65 ----	30-45 ----
HS67 Cadoma	0-4	Loam, silty clay loam, clay, silty clay	CL, CH	A-7, A-6	0	95-100	95-100	80-90	75-85	41-55	25-35
	4-34	Clay, clay loam, silty clay, silty clay loam	CL, CH	A-7	0	100	100	80-90	75-85	41-55	25-35
Arvada	0-4	Fine sandy loam	SM-SC, SM	A-4	0	80-100	75-100	60-80	35-50	20-25	NP-10
	4-14	Clay, silty clay loam, sandy clay	CL, CH	A-7	0	80-100	75-100	70-100	65-95	41-65	20-35
	14-60	Clay loam, silty clay loam, sandy clay loam	CL, CH	A-7	0	80-100	75-100	70-100	55-80	41-45	20-25
Worfka	0-2	Clay loam, loam	CL	A-6, A-7	0	95-100	90-100	75-95	55-80	35-45	15-20
	2-19	Clay loam	CL	A-6, A-7	0	95-100	90-100	90-100	75-95	35-45	15-20
HS68 Cadoma	0-4	Loam, silty clay loam, clay, silty clay	CL, CH	A-7, A-6	0	95-100	95-100	80-90	75-85	41-55	25-35
	4-34	Clay, clay loam, silty clay, silty clay loam	CL, CH	A-7	0	100	100	80-90	75-85	41-55	25-35
Epsie (b)	0-2	Clay	CL, CH	A-7	0	100	100	75-95	70-90	40-55	20-30
	2-18 18	Clay Clay Weathered Bedrock	CH ----	A-7 ----	0 ---	100 ----	100 ----	75-95 ----	70-90 ----	50-65 ----	30-45 ----
HS71 Cadoma	0-4	Loam, silty clay loam, clay, silty clay	CL, CH	A-7, A-6	0	95-100	95-100	80-90	75-85	41-55	25-35
	4-34	Clay, clay loam, silty clay, silty clay loam	CL, CH	A-7	0	100	100	80-90	75-85	41-55	25-35
Shingle	0-4	Loam	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	NP-10
	4-15	Clay loam, loam	CL	A-6	5	75-100	75-100	65-100	50-80	30-40	10-20

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS72 Absted	0-3 3-60	Loam Clay, clay loam, silty clay loam	CL CH, CL	A-6 A-7	0-5 0	85-100 85-100	80-100 80-100	75-95 80-100	50-65 70-95	25-30 41-60	10-15 20-30
Arvada	0-4 4-14 14-60	Fine sandy loam Clay, silty clay loam, sandy clay loam, silty clay loam, sandy clay loam	SM-SC, SM CL, CH CL	A-4 A-7 A-7	0 0 0	80-100 80-100 80-100	75-100 75-100 75-100	60-80 70-100 70-100	35-50 65-95 55-80	20-25 41-65 41-45	NP-10 20-35 20-25
HS73 Absted	0-3 3-60	Loam Clay, clay loam, silty clay loam	CL CH, CL	A-6 A-7	0-5 0	85-100 85-100	80-100 80-100	75-95 80-100	50-65 70-95	25-30 41-60	10-15 20-30
Stoneham	0-4 4-9 9-40 40-60	Loam Clay loam, sandy clay loam, loam Loam, clay loam Sandy loam, gravelly sandy loam	CL-ML CL, SC, SM-SC, CL-ML CL, SC, SM-SC, CL-ML SM, GM	A-4 A-6, A-4 A-4, A-6 A-2, A-4	0 0 0 0-5	80-100 95-100 95-100 65-100	75-100 90-100 75-100 60-100	65-95 80-100 60-95 50-85	60-75 35-80 45-75 25-50	20-30 25-40 15-30	5-10 5-20 5-15 NP
Ulm	0-9 9-26 26-60	Loam, clay loam Clay loam, clay Clay loam	ML CL CL	A-4 A-6, A-7 A-6	0-5 0-5 0-5	95-100 75-100 75-100	95-100 75-100 75-100	80-100 75-100 75-100	70-80 60-80 60-80	30-40 35-45 30-40	5-10 20-30 15-20
HS75 Arvada	0-4 4-14 14-60	Fine sandy loam Clay, silty clay loam, sandy clay loam, silty clay loam, sandy clay loam	SM-SC, SM CL, CH CL	A-4 A-7 A-7	0 0 0	80-100 80-100 80-100	75-100 75-100 75-100	60-80 70-100 70-100	35-50 65-95 55-80	20-25 41-65 41-45	NP-10 20-35 20-25
Kim alkali	0-4 4-16 16-60	Silty clay loam, clay loam, loam Clay loam, loam Clay loam, loam	CL CL CL	A-6 A-6 A-6	0 0 0	85-100 85-100 85-100	85-100 85-100 85-100	80-100 80-100 80-100	70-85 70-85 70-85	30-40 30-40 30-40	15-20 15-20 15-20
HS91C Neville (b)	0-10 0-10 10-60	Fine sandy loam, sandy loam Loam Loam, clay loam, sandy clay loam	SM, ML CL-ML CL-ML, CL	A-4, A-2 A-4 A-4, A-6	0-5 0-5 0-5	90-100 90-100 90-100	75-100 75-100 85-100	60-95 60-90 85-95	30-55 50-65 60-80	---- 20-30 20-40	NP 5-10 5-15
HS102 Rock outcrop											

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS110 Shingle	0-4 4-15	Loam Clay loam, loam	ML CL	A-4 A-6	0-5 0	75-100 75-100	75-100 75-100	70-95 65-100	55-75 50-80	25-35 30-40	NP-10 10-20
Tassel	0-15	Fine sandy loam, loamy very fine sand, very fine sandy loam	ML, SM	A-4	0	95-100	90-100	70-95	40-65	20-35	NP-7
HS111 Rock outcrop											
Shingle	0-4 4-15	Loam Clay loam, loam	ML CL	A-4 A-6	0-5 5	75-100 75-100	75-100 75-100	70-95 65-100	55-75 50-80	25-35 30-40	NP-10 10-20
Tassel	0-15	Fine sandy loam, loamy very fine sand, very fine sandy loam	ML, SM	A-4	0	95-100	90-100	70-95	40-65	20-35	NP-7
HS190 Epsie (b)											
	0-2 2-18 18	Clay Clay Weathered Bedrock	CL, CH CH ----	A-7 A-7 ----	0 0 ----	100 100 ----	100 100 ----	75-95 75-95 ----	70-90 70-90 ----	40-55 50-65 ----	20-30 30-45 ----
Shingle	0-4 4-15	Loam Clay loam, loam	ML CL	A-4 A-6	0-5 0	75-100 75-100	75-100 75-100	70-95 65-100	55-75 50-80	25-35 30-40	NP-10 10-20
HS243 Kim alkali	0-4 4-16 16-60	Silty clay loam, clay loam, loam Clay loam, loam Clay loam, loam	CL CL CL CL	A-6 A-6 A-6 A-6	0 0 0 0	85-100 85-100 85-100 85-100	85-100 85-100 85-100 85-100	80-100 80-100 80-100 80-100	70-85 70-85 70-85 70-85	30-40 30-40 30-40 30-40	15-20 15-20 15-20 15-20
Kim loam	0-6 6-60	Loam, fine sandy loam Loam, clay loam	ML, SM CL-ML, CL	A-4 A-4, A-6	0-5 0-5	80-100 80-100	75-100 75-100	60-90 70-95	45-75 60-85	20-35 25-40	NP-5 5-15
HS244 Kim alkali	0-4 4-16 16-60	Silty clay loam, clay loam, loam Clay loam, loam Clay loam, loam	CL CL CL CL	A-6 A-6 A-6 A-6	0 0 0 0	85-100 85-100 85-100 85-100	85-100 85-100 85-100 85-100	80-100 80-100 80-100 80-100	70-85 70-85 70-85 70-85	30-40 30-40 30-40 30-40	15-20 15-20 15-20 15-20
HS246 Orella	0-3 3-18	Silty clay, clay Clay, clay loam	CH CH	A-7 A-7	0 0	100 100	100 100	90-100 90-100	75-95 75-95	50-70 50-70	30-50 30-50
Epsie (b)	0-2 2-18 18	Clay Clay Weathered Bedrock	CL, CH CH ----	A-7 A-7 ----	0 0 ----	100 100 ----	100 100 ----	75-95 75-95 ----	70-90 70-90 ----	40-55 50-65 ----	20-30 30-45 ----
HS247 Torriorthents											

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS315 Persayo	0-14	Silty clay loam, clay loam,	CL	A-6	0-10	80-100	75-100	75-95	60-85	25-40	10-20
	0-4	Gravelly loam, chanery loam, gravelly sandy clay loam	GM GM-GC	A-4	10-35	60-85	50-75	45-65	35-50	25-35	5-10
Clifterson	4-60	Very gravelly loam, sandy loam, chanery loam	GM GM-GC,	A-2	10-35	20-40	20-40	15-35	10-25	25-35	5-10
	0-8	Gravelly loam	GM-GC, GM SM, SM-SC	A-2 A-4	0-5	45-80	35-75	30-70	20-50	25-35	5-10
HS322 Nihill	8-60	Very gravelly loam, gravelly loam	GM	A-2, A-1	0-5	30-60	20-50	15-45	12-35	20-35	NP-5
	0-4 4-15	Loam Clay loam, loam	ML CL	A-4 A-6	0-5 0	75-100 75-100	75-100 75-100	70-95 65-100	55-75 50-80	25-35 30-40	NP-10 10-20
Shingle	0-7 7-22 22-30	Loam Loam Gravelly sandy clay loam	ML CL SM-SC	A-4 A-6 A-2	0-5 0-5 5-10	85-100 80-100 70-95	75-100 75-100 50-85	70-95 75-95 35-75	40-75 50-75 20-55	15-25 25-35 20-30	NP-5 10-15 5-10
	30-60	Very gravelly sand	GP	A-1	25-50	25-40	20-30	5-15	0-5		NP
HS324 Larimer	0-8	Gravelly loam	GM-GC, GM SM, SM-SC	A-2, A-4	0-5	45-80	35-75	30-70	20-50	25-35	5-10
	8-60	Very gravelly loam, gravelly loam	GM-GC, GM SM, SM-SC	A-2, A-1	0-5	30-60	20-50	15-45	12-35	20-35	NP-5
Nihill	0-7 7-22 22-30	Loam Loam Gravelly sandy clay loam	ML CL SM-SC	A-4 A-6 A-2	0-5 0-5 5-10	85-100 80-100 70-95	75-100 75-100 50-85	70-95 75-95 35-75	40-75 50-75 20-55	15-25 25-35 20-30	NP-5 10-15 5-10
	30-60	Very gravelly sand	GP	A-1	25-50	25-40	20-30	5-15	0-5		NP
HS325 Larimer	0-8	Gravelly loam	GM-GC, GM SM, SM-SC	A-2, A-4	0-5	45-80	35-75	30-70	20-50	25-35	5-10
	8-60	Very gravelly loam, gravelly loam	GM-GC, GM SM, SM-SC	A-2, A-1	0-5	30-60	20-50	15-45	12-35	20-35	NP-5
Stoneham	0-7 7-22 22-30	Loam Loam Gravelly sandy clay loam	ML CL SM-SC	A-4 A-6 A-2	0-5 0-5 5-10	85-100 80-100 70-95	75-100 75-100 50-85	70-95 75-95 35-75	40-75 50-75 20-55	15-25 25-35 20-30	NP-5 10-15 5-10
	30-60	Very gravelly sand	GP	A-1	25-50	25-40	20-30	5-15	0-5		NP
Stoneham	0-4 4-9	Loam Clay loam, sandy clay loam, loam	CL-ML CL, SC, SM-SC, CL-ML	A-4 A-6, A-4	0 0	80-100 95-100	75-100 90-100	65-95 80-100	60-75 35-80	20-30 25-40	5-10 5-20
	9-40	Loam, Clay loam	CL, SC, SM-SC, CL-ML	A-4, A-6	0	95-100	75-100	60-95	45-75	15-30	5-15
Stoneham	40-60	Sandy loam, gravelly sandy loam	SM-SC, CL-ML SM, GM	A-2, A-4	0-5	65-100	60-100	50-85	25-50		NP

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Nihill	0-8	Gravelly loam	GM-GC, GM, SM, SM-SC, GM	A-2, A-4	0-5	45-80	35-75	30-70	20-50	25-35	5-10
	8-60	Very gravelly loam, gravelly loam		A-2, A-1	0-5	30-60	20-50	15-45	12-35	20-35	NP-5
HS345 Vona	0-8	Sandy loam, fine sandy loam	SM	A-2, A-4	0	100	90-100	60-90	30-45		NP
	8-30	Fine sandy loam, sandy loam	SM	A-2, A-4	0	100	90-100	60-90	30-45		NP
	30-60	Sandy loam, loamy sand	SM	A-2	0	100	90-100	50-55	15-30		NP
	0-14	Sandy loam, fine sandy loam, loamy fine sand	SM	A-2	0-1	95-100	75-100	50-80	10-35		NP
Otero	14-60	Sandy loam, fine sandy loam, gravelly sandy loam	SM	A-2, A-1	0-1	90-100	50-100	40-80	20-35		NP
HS360 Stoneham	0-4	Loam	CL-ML, CL, SC, SM-SC, CL-ML, CL, SC, SM-SC, CL-ML, SM, GM	A-4, A-6, A-4	0	80-100, 95-100	75-100, 90-100	65-95, 80-100	60-75, 35-80	20-30, 25-40	5-10, 5-20
	4-9										
	9-40	Loam, Clay loam		A-4, A-6	0	95-100	75-100	60-95	45-75	15-30	5-15
	40-60	Sandy loam, gravelly sandy loam		A-2, A-4	0-5	65-100	60-100	50-85	25-50		NP
Kim	0-6	Loam, fine sandy loam, Loam, clay loam	ML, SM, CL-ML, CL	A-4, A-6	0-5	80-100, 80-100	75-100, 75-100	60-90, 70-95	45-75, 60-85	20-35, 25-40	NP-5, 5-15
	6-60										
HS371 Pavillion	0-11	Loam, clay loam, silty clay loam	ML, CL	A-4, A-6, A-7	0-5	80-100, 80-100	80-100, 80-100	65-95, 65-95	50-75, 50-75	20-35, 25-45	5-10, 5-15
	11-26										
Persayo	0-14	Silty clay loam, clay loam,	CL	A-6	0-10	80-100	75-100	75-95	60-85	25-40	10-20
HS372 Tassel	0-15	Fine sandy loam, loamy very fine sand, very fine sandy loam	ML, SM	A-4	0	95-100	90-100	70-95	40-65	20-35	NP-7
Nelson	0-9	Fine sandy loam, Fine sandy loam, sandy loam, loamy very fine sand	SM, ML, SM, ML	A-4, A-2, A-4	0-5, 0	75-100, 75-100	75-100, 75-100	70-90, 60-85	45-60, 30-55		NP, NP
	9-30										

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index		
						4	10	40	200				
HS375 Bowbac	0-3	Sandy loam	SM	A-2	0	90-100	90-100	55-70	20-40	NP 5-15	NP		
	3-14	Sandy clay loam, clay loam	SC, CL	A-2, A-6	0	90-100	90-100	70-90	30-55				
	14-30	Clay loam	CL	A-6	0	90-100	90-100	80-100	60-80				
	0-8	Loamy sand	SM	A-2	0	95-100	90-100	60-90	10-20				
Olney	8-16	Sandy clay loam, sandy loam	SC, CL	A-6	0	95-100	90-100	80-100	40-55	NP 10-20	NP		
	16-22	Sandy loam, sandy clay loam, fine sandy loam	SC, SM-SC, CL, CL-ML	A-4, A-6	0	95-100	95-100	75-95	35-55				
	22-60	Fine sandy loam, loamy fine sand, sandy loam	CL, SM	A-2	0	95-100	95-100	70-95	20-35				
	0-4	Fine sandy loam	SM-SC, SM	A-4	0	80-100	75-100	60-80	35-50				
HS382 Rock outcrop	4-14	Clay, silty clay loam, sandy clay loam, sandy clay loam	CL, CH	A-7	0	80-100	75-100	70-100	65-95	NP-10 20-35	NP-10		
	14-60	Clay loam, silty clay loam, sandy clay loam	CL	A-7	0	80-100	75-100	70-100	55-80				
	0-15	Fine sandy loam, loamy very fine sand, very fine sandy loam	ML, SM	A-4	0	95-100	90-100	70-95	40-65			NP-7	NP-7
	0-15	Fine sandy loam, loamy very fine sand, very fine sandy loam	ML, SM	A-4	0	95-100	90-100	70-95	40-65				
HS383 Rock outcrop	0-9	Fine sandy loam	SM, ML	A-4	0-5	75-100	75-100	70-90	45-60	NP NP	NP		
	9-30	Fine sandy loam, sandy loam, loamy very fine sand	SM, ML	A-2, A-4	0	75-100	75-100	60-85	30-55				
Nelson	0-8	Loam, silty loam, very fine silt loam	ML, CL	A-4, A-6	0	100	100	85-100	65-90	NP-15 NP-15	NP-15		
	8-16	Loam, silt loam, very fine sandy loam	ML, CL	A-4 A-6, A-7	0	95-100	80-100	70-100	50-90				
HS389 Spearfish	0-10	Fine sandy loam, very fine sandy loam, loam	ML, SM	A-4	0-5	90-100	75-100	70-95	40-75	NP-5 5-15	NP-5		
	10-60	Loam, silt loam, clay loam	CL, CL-ML	A-4, A-6	0-5	90-100	85-100	85-95	60-80				

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS393 Olney	0-8	Loamy sand	SM	A-2	0	95-100	90-100	60-90	10-20	25-35	NP 10-20
	8-16	Sandy clay loam, sandy loam	SC, CL	A-6	0	95-100	90-100	80-100	40-55		
	16-22	Sandy loam, sandy clay loam, fine sandy loam	SC, SM-SC, CL, CL-ML	A-4, A-6	0	95-100	95-100	75-95	35-55		
	22-60	Fine sandy loam, loamy fine sand, sandy loam	CL, SM	A-2	0	95-100	95-100	70-95	20-35		
Bowbac	0-3	Sandy loam	SM	A-2	0	90-100	90-100	55-70	20-40	30-35	NP 5-15
	3-14	Sandy clay loam, clay loam	SC, CL	A-2, A-6	0	90-100	90-100	70-90	30-55		
	14-30	Clay loam	CL	A-6	0	90-100	90-100	80-100	60-80		
HS398 Tassel	0-15	Fine sandy loam, loamy very fine sand, very fine sandy loam	ML, SM	A-4	0	95-100	90-100	70-95	40-65	20-35	NP-7
Bowbac	0-3	Sandy loam	SM	A-2	0	90-100	90-100	55-70	20-40	30-35	NP 5-15
	3-14	Sandy clay loam, clay loam	SC, CL	A-2, A-6	0	90-100	90-100	70-90	30-55		
	14-30	Clay loam	CL	A-6	0	90-100	90-100	80-100	60-80		
Terry	0-5	Fine sandy loam, sandy loam	SM, ML	A-2, A-4	0-5	75-100	75-100	70-90	30-60	35-40	NP 10-20
	5-14	Fine sandy loam, sandy loam	SM, ML	A-4	0-5	75-100	75-100	70-85	40-60		
	14-26	Fine sandy loam, sandy loam	SM	A-2, A-4	0-5	75-100	75-100	70-85	25-50		
		loam, loamy fine sand									
HS410 Bondman	0-3	Sandy loam	SM	A-2, A-4	0	80-100	80-100	50-70	25-40	30-35	NP 10-15
	3-12	Sandy clay loam	CL, SC	A-6	0	80-100	80-100	65-90	30-55		
	12-18	Sandy loam	SM	A-2, A-4	0-5	80-100	80-100	50-70	25-40		
Worfka	0-2	Clay loam, loam	CL	A-6, A-7	0	95-100	90-100	75-95	55-80	35-45	15-20
	2-19	Clay loam	CL	A-6, A-7	0	95-100	90-100	90-100	75-95		
Worf	0-14	Loam, clay loam	CL	A-6	0-5	80-100	80-100	65-95	50-65	30-35	10-15
HS411 Bondman	0-3	Sandy loam	SM	A-2, A-4	0	80-100	80-100	50-70	25-40	30-35	NP 10-15
	3-12	Sandy clay loam	CL, SC	A-6	0	80-100	80-100	65-90	30-55		
	12-18	Sandy loam	SM	A-2, A-4	0	80-100	80-100	50-70	25-40		
Rock outcrop											
Worf	0-14	Loam, clay loam	CL	A-6	0-5	80-100	80-100	65-95	50-65	30-35	10-15

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS426 Larim	0-4 4-15	Gravelly loam, loam Gravelly clay loam, gravelly sandy clay loam	GM, ML SC, CL	A-4 A-6	0-5 0-5	65-85 70-85	55-80 60-80	45-65 50-70	35-55 35-60	20-30 20-35	NP-5 10-15
	15-60	Gravelly sand	GP, SW	A-1	0-5	30-60	20-40	10-25	0-5		NP
Larimer	0-7	Loam	ML	A-4	0-5	85-100	75-100	70-95	40-75	15-25	NP-5
	7-22	Loam	CL	A-6	0-5	80-100	75-100	75-95	50-75	25-35	10-15
	22-30	Gravelly sandy clay loam	SM-SC	A-2	5-10	70-95	50-85	35-75	20-55	20-30	5-10
HS447 Travesilla	30-60	Very gravelly sand	GP	A-1	25-50	25-40	20-30	5-15	0-5		NP
	0-8	Loam, channery loam gravelly loam, stony loam	SM, SL	A-4, A-6	0-20	65-100	55-95	50-90	35-70	<30	NP-5
HS448 Torriffuents Saline											
HS450 Torriffuents											
Fluvaquents											
HS490 Shingle	0-4 4-15	Loam Clay loam, loam	ML CL	A-4 A-6	0-5 0	75-100 75-100	75-100 75-100	70-95 65-100	55-75 50-80	25-35 30-40	NP-10 10-20
	0-4	Clay loam, loam, very fine sandy loam	CL, SC, SM-SC, CL-ML	A-4	0-5	80-100	75-100	70-95	40-75	20-30	5-10
Theda lund	4-30	Clay loam, loam, sandy clay loam, silty clay loam	CL-ML, CL, SC, SM-SC	A-6, A-4	0-5	80-100	75-100	70-95	40-80	25-35	5-15
HS572 Worland	0-30	Sandy loam	SM	A-2	0	75-100	75-100	50-65	25-35		NP
Oceanet	0-14	Sandy loam, gravelly sandy loam	GM, SM	A-1, A-2	0-10	55-100	55-100	35-65	20-35		NP
HS601 Youngston	0-22	Loam, clay loam, silty clay loam	ML, CL	A-4, A-6	0	95-100	95-100	80-100	60-85	35-40	10-20
	22-60	Stratified very fine sandy loam, silt loam, silty clay loam	ML, CL	A-6	0	95-100	95-100	80-100	60-80	35-40	10-20

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Uffens	0-3	Silt loam, loam, fine sandy loam	ML, CL-ML	A-4	0	100	100	70-100	50-90	15-30	NP-10
	3-30	Sandy clay loam, sandy loam, loam	SM-SC, SC, CL, CL-ML	A-4, A-6	0	100	100	80-90	40-60	25-35	5-15
Glenton	0-10	Clay loam, loam	CL, ML	A-6, A-4	0-5	80-100	80-100	70-100	35-50	30-40	10-15
	10-60	Stratified sandy loam, clay loam	SC	A-6	0-5	80-100	80-100	70-100	35-50	30-40	10-15
HS602 Binton	0-60	Stratified very fine sandy loam and clay loam	CL	A-6	0	75-100	75-100	70-100	55-80	35-40	15-20
Uffens	0-3	Silt loam, loam, fine sandy loam	ML, CL-ML	A-4	0	100	100	70-100	50-90	15-30	NP-10
	3-30	Sandy clay loam, sandy loam, loam	SM-SC, SC, CL, CL-ML	A-4, A-6	0	100	100	80-90	40-60	25-35	5-15
HS604 Effington	0-3	Clay loam, silty clay loam	CL	A-6	0	75-100	65-95	55-75	35-40	15-20	
	3-19	Clay, clay loam, silty clay loam	CL, CH	A-7	0	75-100	75-100	70-85	45-60	20-35	
	19-60	Loam, clay loam, silty clay loam	CL-ML, ML	A-4	0	75-100	65-90	50-70	25-35	5-10	
Effington Variant	0-30	Silty clay loam, clay loam	CL, CH	A-6, A-7	0	75-100	75-100	65-100	55-85	40-60	15-35
HS645 Mudray	0-2	Sand loam very fine sandy loam	SM, ML	A-2, A-4	0	75-100	75-100	50-95	25-65		NP-5
	2-12	Clay, sandy clay	SC, CL	A-7	0	75-100	75-100	70-100	60-90	45-55	20-30
	12-17	Sandy clay loam	SC	A-6	0	75-100	75-100	65-90	40-50	30-40	15-20
Persayo	0-14	Silty clay loam, clay loam,	CL	A-6	0-10	80-100	75-100	75-95	60-85	25-40	10-20
Effington Variant	0-30	Silty clay loam, clay loam	CL, CH	A-6, A-7	0	75-100	75-100	65-100	55-85	40-60	15-35
HS671 Rock outcrop											
Persayo	0-14	Silty clay loam, clay loam	CL	A-6	0-10	80-100	75-100	75-95	60-85	25-40	10-20

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS700 Stoneham	0-4 4-9	Loam Clay loam, sandy clay loam, loam	CL-ML CL-SC, SM-SC, CL-ML	A-4 A-6, A-4	0 0	80-100 95-100	75-100 90-100	65-95 80-100	60-75 35-80	20-30 25-40	5-10 5-20
Cushman	9-40	Loam, Clay loam	CL-SC, SM-SC, CL-ML	A-4, A-6	0	95-100	75-100	60-95	45-75	15-30	5-15
HS702 Absted	40-60	Sandy loam, loam gravelly sandy loam	SM,GM	A-2, A-4	0-5	65-100	60-100	50-85	25-50	NP	NP
Fort Collins	0-7 7-12 12-24	Loam Clay loam Loam, clay loam, sandy loam	ML, CL-ML CL CL-ML, CL, SM-SC	A-4 A-6 A-4, A-6	0 0 0	100 100 100	85-100 90-100 85-100	85-95 85-95 85-95	60-75 70-80 60-75	20-30 25-35 25-30	NP-10 10-15 5-10
HS703 Fort Collins	0-3 3-60	Loam Clay, clay loam, silty clay loam	CL CH, CL	A-6 A-7	0-5 0	85-100 85-100	80-100 80-100	75-95 80-100	50-65 70-95	25-30 41-60	10-15 20-30
Cushman	0-8 8-18 18-60	Loam Loam, clay loam Loam	ML, CL-ML CL CL, CL-ML	A-4 A-6 A-4, A-6	0 0 0	95-100 95-100 95-100	90-100 90-100 90-100	85-100 85-95 80-95	50-65 60-75 50-75	25-35 25-40 25-35	5-10 15-25 5-15
HS705 Kim	0-7 7-12 12-24	Loam Clay loam Loam, clay loam, sandy loam	ML, CL-ML CL CL-ML, CL, SM-SC	A-4 A-6 A-4, A-6	0 0 0	100 100 100	85-100 90-100 85-100	85-95 85-95 85-95	60-75 70-80 60-75	20-30 25-35 25-30	NP-10 10-15 5-10
Theda lund	0-6 6-60	Loam, fine sandy loam Loam, clay loam	ML,SM CL-ML, CL	A-4 A-4, A-6	0-5 0-5	80-100 80-100	75-100 75-100	60-90 70-95	45-75 60-85	20-35 25-40	NP-5 5-15
Theda lund	0-4	Clay loam, loam, very fine sandy loam	CL, SC, SM-SC, CL-ML	A-4	0-5	80-100	75-100	70-95	40-75	20-30	5-10
Theda lund	4-30	Clay loam, loam, sandy clay loam, silty clay loam	CL, SC CL-ML, CL, SC SM-SC	A-6, A-4	0-5	80-100	75-100	70-95	40-80	25-35	5-15

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS708 Renohill	0-7	Clay loam, loam,	CL	A-6	0	85-100	85-100	80-95	70-80	25-40	10-20
	7-14	silty clay loam	CL, CH	A-7, A-6	0	95-100	90-100	90-100	75-95	35-65	25-35
	14-30	Clay, clay loam	CL	A-6	0	85-100	80-100	80-95	70-80	30-40	15-25
Cushman	0-7	Loam	ML, CL-ML	A-4	0	100	85-100	85-95	60-75	20-30	NP-10
	7-12	Clay loam	CL	A-6	0	100	90-100	85-95	70-80	25-35	10-15
	12-24	Loam, clay loam, sandy loam	CL-ML, CL, SM-SC	A-4, A-6	0	100	85-100	85-95	60-75	25-30	5-10
Worfka	0-2	Clay loam, loam	CL	A-6, A-7	0	95-100	75-95	55-80	35-45	15-20	
	2-19	Clay loam	CL	A-6, A-7	0	95-100	90-100	75-95	35-45	15-20	
HS709 Renohill	0-7	Clay loam, loam,	CL	A-6	0	85-100	85-100	80-95	70-80	25-40	10-20
	7-14	silty clay loam	CL, CH	A-7, A-6	0	95-100	90-100	90-100	75-95	35-65	25-35
	14-30	Clay, clay loam	CL	A-6	0	85-100	80-100	80-95	70-80	30-40	15-25
Cadoma	0-4	Loam, silty clay loam,	CL, CH	A-7, A-6	0	95-100	95-100	80-90	75-85	41-55	25-35
	4-34	clay, silty clay loam, silty clay, silty clay loam	CL, CH	A-7	0	100	100	80-90	75-85	41-55	25-35
Worfka	0-2	Clay loam, loam	CL	A-6, A-7	0	95-100	75-95	55-80	35-45	15-20	
	2-19	Clay loam	CL	A-6, A-7	0	95-100	90-100	75-95	35-45	15-20	
HS720 Blazon	0-14	Loam	ML, CL-ML	A-4	0-5	80-100	80-100	70-90	55-70	25-35	5-10
Rock outcrop											
HS722 Blazon	0-14	Loam	ML, CL-ML	A-4	0-5	80-100	80-100	70-90	55-70	25-35	5-10
HS723 Blazon	0-14	Loam	ML, CL-ML	A-4	0-5	80-100	80-100	70-90	55-70	25-35	5-10
Delphill	0-3	Loam	CL-ML, ML	A-4	0	100	100	85-95	60-75	20-30	5-10
	3-28	Loam, clay loam,	CL-ML, CL	A-4, A-6	0	100	100	85-95	65-85	25-35	5-15
HS725 Blazon	0-14	Loam	ML, CL-ML	A-4	0-5	80-100	80-100	70-90	55-70	25-35	5-10
Diamondville	0-7	Loam	CL-ML	A-4	0-5	95-100	90-100	85-95	60-75	15-25	5-10
	7-20	Clay loam	CL-ML	A-6, A-7	0-5	95-100	90-100	85-95	70-80	35-45	15-25
	20-28	Loam	CL-ML	A-4	0-5	95-100	90-100	85-95	60-75	15-25	5-10

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
HS735 Patent Forelle	0-60	Clay loam, loam	CL, ML	A-6, A-4	0-5	95-100	95-100	80-90	60-85	30-45	10-25
	0-4	Loam, very fine sandy loam	CL-ML, ML	A-4	0-10	85-100	85-100	70-90	55-70	25-35	5-10
	4-20	Clay loam, loam	CL	A-6	0-10	85-100	85-100	75-95	55-70	30-40	10-20
	20-60	Loam, clay loam	CL-ML, CL	A-4	0-10	85-100	85-100	70-90	55-70	25-35	10-15
HS736 Forelle	0-4	Loam, very fine sandy loam	CL-ML, ML	A-4	0-10	85-100	85-100	70-90	55-70	25-35	5-10
	4-20	Clay loam, loam	CL	A-6	0-10	85-100	85-100	75-95	55-70	30-40	10-20
	20-60	Loam, clay loam	CL-ML, CL	A-4	0-10	85-100	85-100	70-90	55-70	25-35	10-15
Pineilli	0-3	Loam	CL-ML, ML	A-4	0	75-100	75-100	65-90	50-80	25-35	5-10
	3-21	Clay loam, silty clay loam	CL	A-6, A-7	0	75-100	75-100	70-100	60-95	35-45	15-25
	21-60	Clay loam, silty clay loam	CL	A-6	0	75-100	75-100	65-90	55-95	25-35	10-15
HS749 Renohill	0-7	Clay loam, loam, silty clay loam	CL	A-6	0	85-100	85-100	80-95	70-80	25-40	10-20
	7-14	Clay, clay loam	CL, CH	A-7, A-6	0	95-100	90-100	90-100	75-95	35-65	25-35
	14-30	Clay loam, sandy clay loam	CL	A-6	0	85-100	80-100	80-95	70-80	30-40	15-25
Worfka	0-2	Clay loam, loam	CL	A-6, A-7	0	95-100	75-95	55-80	35-45	15-20	
	2-19	Clay loam	CL	A-6, A-7	0	95-100	90-100	75-95	35-45	15-20	
HS751 Worfka	0-2	Clay loam, loam	CL	A-6, A-7	0	95-100	75-95	55-80	35-45	15-20	
	2-19	Clay loam	CL	A-6, A-7	0	95-100	90-100	75-95	35-45	15-20	
Shingle	0-4	Loam	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	NP-10
	4-15	Clay loam, loam	CL	A-6	5	75-100	75-100	65-100	50-80	30-40	10-20
Rock outcrop											
HS753 Gaynor	0-6	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	95-100	95-100	95-100	70-90	30-50	15-35
	6-30	Silty clay loam, silty clay, clay	CL, CH	A-7	0	95-100	95-100	95-100	75-95	40-60	20-40
Samsil	0-17	Clay	CH	A-7	0	100	85-100	80-100	70-100	50-85	25-60
HS902 Samsil	0-17	Clay	CH	A-7	0	100	85-100	80-100	70-100	50-85	25-60

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3" Inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Shingle	0-4 4-15	Loam Clay loam, loam	ML CL	A-4 A-6	0-5 5	75-100 75-100	75-100 75-100	70-95 65-100	55-75 50-80	25-35 30-40	NP-10 10-20
HS910 Cadoma	0-4 4-34	Loam, silty clay loam, clay, silty clay Clay, clay loam, silty clay, silty clay loam	CL, CH CL, CH	A-7, A-6 A-7	0 0	95-100 100	95-100 100	80-90 80-90	75-85 75-85	41-55 41-55	25-35 25-35
Theda lund	0-4 4-30	Clay loam, loam, very fine sandy loam Clay loam, loam, sandy clay loam, silty clay loam	CL, SC, SM-SC, CL-ML CL-ML, CL, SC SM-SC	A-4 A-6, A-4	0-5 0-5	80-100 80-100	75-100 75-100	70-95 70-95	40-75 40-80	20-30 25-35	5-10 5-15
Epsie (b)	0-2 2-18 18	Clay Clay Weathered Bedrock	CL, CH CH ----	A-7 A-7 ----	0 0 ----	100 100 ----	100 100 ----	75-95 75-95 ----	70-90 70-90 ----	40-55 50-65 ----	20-30 30-45 ----
HS930 Rentsac Variant	0-8 8-16 16-30 30	Loam Clay loam, loam Loam Unweathered Bedrock	ML, CL-ML ML, CL-ML ML ----	A-4 A-6, A-4 A-4 ----	0-15 0-15 0-20 ----	85-100 85-100 85-100 ----	75-100 75-100 75-100 ----	70-90 75-90 70-85 ----	50-70 55-75 50-70 ----	15-30 20-30 15-20 ----	NP-10 5-15 NP-10 ----
Rentsac	0-7 0-7	CN-loam, CN- sandy loam Very CN-loam, very CN-sandy loam, very gravelly loam Extra CN-loam, extra gravelly sandy loam, very FL-loam Unweathered Bedrock	SM, ML, GM SM, GM SM, GM SM, GM ----	A-4 A-2, A-1 A-2, A-4, A-1 ----	0-15 15-25 15-50 ----	70-85 45-70 40-75 ----	60-75 35-60 30-65 ----	45-65 25-45 15-45 ----	35-55 15-35 10-40 ----	20-25 20-25 20-25 ----	NP-5 NP-5 NP-5 ----
Clayburn Variant	0-12 12-60	Very gravelly loam Very gravelly clay loam, extra gravelly clay loam	GM GP-GM, GM-GC, GM	A-1, A-2 A-1, A-2 ----	2-10 2-10 ----	35-50 20-60 ----	25-45 15-40 ----	15-40 10-35 ----	15-35 10-30 ----	----- 25-35 ----	NP- 5-10 ----
HS931 Clayburn Variant	0-12 12-60	Very gravelly loam Very gravelly clay loam, extra gravelly clay loam	GM GP-GM, GM-GC, GM	A-1, A-2 A-1, A-2 ----	2-10 2-10 ----	35-50 20-60 ----	25-45 15-40 ----	15-40 10-35 ----	15-35 10-30 ----	----- 25-35 ----	NP- 5-10 ----

Table B-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Rentsac Variant	0-8	Loam	ML, CL-ML	A-4	0-15	85-100	75-100	70-90	50-70	15-30	NP-10
	8-16	Clay loam, loam	ML, CL-ML	A-6, A-4	0-15	85-100	75-100	75-90	55-75	20-30	5-15
	16-30	Loam	ML	A-4	0-20	85-100	75-100	70-85	50-70	15-20	NP-10
	30	Unweathered Bedrock	----	----	----	----	----	----	----	----	----

a = Source: See Table 1 for data sources.

Source: See Glossary, Table A, for a description of properties.

b = Source: Data from series description (Form 5).

Table B-4. Engineering Properties of Soil Series of Lincoln and Sweetwater Counties. (a)

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Boltus	0-12 12	SIC WB	CL	A-6, A-7	0	90-100	75-100	75-100	70-100	35-50	15-25
Cambarge	0-14 14-27 27-60					75-85 35-50 15-30	70-90 30-45 10-25	55-70 25-40 5-20	20-50 10-25 0-15	<25 <25 ----	NP-5 NP-5 NP
Chrisman	0-7 7-60	SIC, C, SICL SIC, C, SICL	CH, CL CH, CL	A-7 A-7	0 0	95-100 95-100	95-100 95-100	95-100 95-100	90-100 90-100	40-60 40-60	20-30 20-30
Dines	0-7 7-60	SIL SICL SIL, SICL	CL CL CL	A-6 A-6 A-6	0 0 0	100 100 100	100 100 100	95-100 95-100 95-100	80-100 85-100 85-100	25-40 25-40 25-40	10-20 10-20 10-20
Dunkle											
Dunul (b)	0-8 0-8 0-8 8-60	GRV-SL CBV-SL, CB-SL GR-SL GRV-S, CBV-LS, GRX-S	SM, GM SM, GM SM, GM SP, GP, SM, GM	A-1 A-1, A-2 A-1, A-2 A-1	10-25 35-55 0-10 25-55	60-65 60-65 40-70	50-60 50-70 55-65 25-50	30-45 30-50 35-50 10-30	15-25 15-30 15-35 0-15	15-25 15-25 15-25 ----	NP-5 NP-5 NP-5 NP
Dunul Variant											
Forelle	0-4 0-4 4-20 20-60	FSL L, SCL CL, L, SCL L	SM CL-ML, ML CL CL-ML, ML	A-4 A-4 A-6 A-4	0-10 0-10 0-10 0-10	85-100 85-100 85-100 85-100	85-100 85-100 85-100 85-100	65-80 75-100 85-100 85-100	40-50 55-75 50-80 55-75	----- 25-35 25-40 25-35	NP 5-10 10-15 5-10
Forelle	0-4 4-20 20-60	L CL, L GR-SCL	CL-ML, ML CL GC, SC	A-4 A-6 A-2	0-10 0-10 5-20	85-100 85-100 55-75	85-100 85-100 55-70	70-90 75-95 30-60	55-70 55-80 20-35	25-35 30-40 25-35	5-10 10-20 10-15
Forelle Bedrock Substratum	0-4 0-4 4-20 20-44 44	FSL L CL, L L WB	SM CL-ML, ML CL CL-ML, ML	A-4 A-4 A-4, A-6 A-4	0-10 0-10 0-10 0-10	85-100 85-100 85-100 85-100	85-100 85-100 85-100 85-100	65-80 75-100 80-100 75-100	40-50 55-75 55-80 55-75	----- 25-35 25-40 25-35	NP 5-10 8-15 5-10
Forelle	0-4 0-4 4-20 20-60	FSL L CL, L L	SM CL-ML, ML CL CL-ML, ML	A-4 A-4 A-4, A-6 A-4	0-10 0-10 0-10 0-10	85-100 85-100 85-100 85-100	85-100 85-100 85-100 85-100	65-80 75-100 80-100 75-100	40-50 55-75 55-80 55-75	----- 25-35 25-40 25-35	NP 5-10 8-15 5-10

Table B-4. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Garita (b)	0-9	GR-L	GC, SC, GM-GC, SM-SC	A-2, A-4, A-6	0-10	50-75	50-70	45-60	30-50	25-35	5-15
	0-9	GRV-L	GM-GC, GC	A-2	0-10	30-60	30-55	25-45	20-35	25-35	5-15
	0-9	GRV-SL	GM	A-1	0-10	30-60	30-55	20-40	10-25	20-30	NP-5
	9-60	GRV-L, GRV-SL	GM, SM, GM-GC, SM-SC	A-1, A-2	5-30	35-75	20-50	15-45	10-30	15-25	NP-10
Garsid	0-28	L	CL-ML, ML	A-4	0	75-100	75-100	75-100	55-75	20-30	5-10
	28	WB									
Haterton	0-14	L	CL-ML, ML	A-4	0	75-100	75-100	70-100	50-70	25-30	5-10
	14	WB									
Hermering	0-3	GR-L	GM-GC, GM, SM-SC, SM	A-4	10-15	60-80	55-75	50-65	35-50	25-35	5-10
	3-60	GRV-L	GM-GC, GM	A-2, A-1	10-15	25-55	25-50	20-45	15-35	25-35	5-10
Horsley	0-6	SH-L	GM-GC, GM	A-4	0	50-75	50-75	45-65	35-50	25-35	5-10
	6	WB									
Hugoston	0-16	FSL	SM	A-2, A-4	0	75-100	75-100	55-75	30-40	----	NP
	16	WB									
Kandaly	0-60	FS	SM, SP-SM	A-2, A-3	0	100	100	75-90	5-30	----	NP
	0-60	LFS	SM	A-2	0	100	100	75-95	20-35	<20	NP-5
Laney	0-4	L	ML	A-4	0-5	90-100	90-100	70-90	50-80	20-30	NP-5
	4-60	SR-CL-F SL	CL, CL-ML	A-4, A-6	0-5	90-100	90-100	65-95	50-70	20-35	6-15
Langspring	0-11	SL, FSL	SM-SC, CL-ML	A-4	0	95-100	85-100	60-75	35-55	20-25	5-10
	11-26	SCL, L, SL	CL	A-6	0	80-100	75-100	65-85	50-75	25-30	10-15
Langspring Variant	26-60	SCL, L, SL	CL	A-6	0	85-100	80-100	70-85	50-70	25-30	10-15
Leckman	0-12	FSL-SL	SM, SC, SM-SC	A-2, A-4	0	80-100	75-100	50-80	25-50	<25	NP-10
	12-60	FSL-SL	SM, SC, SM-SC	A-2, A-4	0	80-100	75-100	50-80	25-50	<25	NP-10
Monte	0-7	L	ML	A-4	0-10	95-100	90-100	75-95	55-75	30-40	5-10
	0-7	SL	SM, SM-SC	A-2, A-4	0-10	90-100	90-100	60-65	30-45	15-25	NP-5
	7-60	L	ML	A-4	0-10	95-100	90-100	75-95	55-75	30-40	5-10
Pepal	0-15	FSL, SL	SM, SC, SM-SC	A-2, A-4	0-5	85-100	75-100	50-80	25-50	<25	NP-10
	15-60	FSL, SL, GR-SL	SM, SC, SM-SC	A-2, A-4	0-5	75-100	60-100	40-80	20-50	<25	NP-10

Table B-4. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Sagecreek	0-60	L GF-L	CL GC, SC	A-6 A-6	0	75-100	75-100	70-90	50-70	25-35	10-15
	0-60					50-75	50-75	45-65	35-50	25-35	10-15
Sandbranch	0-5					85-100	85-100	75-95	60-80	<25	NP-5
	5-16					85-100	85-100	75-95	60-80	25-35	10-20
Tasselman	16-60	SL GR-SL, CN-SL GR-SL, CN-SL UME	SM GM, SM GM, SM	A-2 A-1, A-2 A-1, A-2	0	85-100	85-100	75-95	60-80	25-35	10-20
	0-3					75-100	75-100	50-65	25-35	----	NP
Tresano	0-3	SL	SM, SC SM-SC	A-2	0	50-75	50-75	30-50	15-30	----	NP
	3-14					50-75	50-75	30-50	15-30	----	NP
Tresano	14	SCL	SM, SC SM-SC	A-2	0	80-100	75-90	50-60	25-35	20-30	NP-10
	0-7					80-100	75-90	50-60	25-35	20-30	NP-10
Tresano	7-60	SCL	SM, SC SM-SC	A-6	0	80-100	75-90	60-80	35-50	30-40	10-15
	7-60					80-100	75-90	60-80	35-50	30-40	10-15

a = Source: Data from miscellaneous BLM surveys in Lincoln and Sweetwater Counties.

b = Source: See Glossary, Table A, for a description of properties.

b = Source: Data from series description (Form 5).

Table B-5. Engineering Properties of Natrona County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
109 Amodac	0-4	Fine sandy loam, clay loam, sandy clay loam, loam, clay loam, sandy clay loam, loam, clay loam, sandy clay loam	SM CL CL CL	A-4 A-6 A-6 A-6	0 0 0 0	90-100 95-100 95-100 95-100	90-100 95-100 95-100 95-100	60-80 60-80 60-80 60-80	40-50 50-70 50-70 50-70	25-30 30-40 30-40 30-40	NP-10 10-15 10-15 10-15
	4-15										
	15-26										
	25-60										
Keyner	0-6	Sandy clay loam, sandy clay loam, clay loam, loam, sandy clay loam, loam, clay loam, sandy clay loam	CL CL CL SM-SC,	A-6 A-6 A-6 A-4	0 0 0 0	75-100 75-100 75-100 75-100	75-100 75-100 75-100 75-100	65-80 65-80 65-80 55-75	50-60 50-60 50-60 40-55	30-35 30-40 30-40 20-25	10-15 10-20 10-20 5-10
	6-11										
	11-18										
	18-60										
112 Arvada	0-3	Clay loam, clay, silty clay loam, clay loam, silty clay loam, clay	CL CL, CH CL CL	A-6 A-7 A-7 A-7	0 0 0 0	100 80-100 80-100 85-100	95-100 75-100 75-100 85-100	85-100 70-100 70-100 75-100	60-80 65-95 55-90 60-80	30-40 40-65 40-50 30-40	15-20 20-35 15-25 10-15
	3-25										
	25-60										
	0-2										
Absted	2-12	Clay loam, silty clay loam, silty clay, clay, silty clay, silty clay loam, clay loam	CL CL, CH CL CL	A-6 A-7 A-7 A-7	0-5 0 0 0	85-100 85-100 85-100 85-100	85-100 85-100 85-100 85-100	75-100 80-90 80-100 80-100	60-80 75-85 70-90 70-90	30-40 40-55 40-50 40-50	10-15 20-30 20-30 20-30
	12-16										
	0-2										
	2-12										
Slickspots 117 Badland	0-2	Clay loam, silty clay loam, clay, silty clay loam, clay	CL CL, CH CL, CH CL, CH	A-6, A-7 A-7 A-7 A-7	0 0 0 0	95-100 95-100 95-100 95-100	95-100 95-100 95-100 95-100	90-100 90-100 90-100 90-100	80-95 80-95 80-95 80-95	35-50 40-60 40-60 40-60	15-25 20-35 20-35 20-35
	2-7										
	7-60										
	0-2										
124 Blackdraw	2-7	Clay loam, silty clay loam, clay, silty clay loam, clay	CL CL, CH CL, CH CL, CH	A-6, A-7 A-7 A-7 A-7	0 0 0 0	95-100 95-100 95-100 95-100	95-100 95-100 95-100 95-100	90-100 90-100 90-100 90-100	80-95 80-95 80-95 80-95	35-50 40-60 40-60 40-60	15-25 20-35 20-35 20-35
	7-60										
	0-2										
	2-7										
125 Blackdraw	0-1	Clay loam, silty clay loam, clay, silty clay loam, clay	CL CL, CH CL, CH CL, CH	A-6, A-7 A-7 A-7 A-7	0 0 0 0	95-100 95-100 95-100 95-100	95-100 95-100 95-100 95-100	90-100 90-100 90-100 90-100	80-95 80-95 80-95 80-95	35-50 40-60 40-60 40-60	15-25 20-35 20-35 20-35
	1-12										
	12-60										
	0-1										

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Lolite	0-1	Clay loam	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	1-5	Clay, clay loam, silty clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	5-12	Clay, clay loam, silty clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	12	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Gullied Land											
126 Blazon	0-3	Loam	CL-ML	A-4	0-5	80-100	80-100	70-90	55-70	25-35	5-10
	3-15	Clay loam, sandy clay loam, loam	CL	A-6	5-10	80-100	80-100	75-95	60-75	30-40	10-20
	15	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Worfman	0-2	Loam, clay loam, sandy clay loam	SM-SC, SM	A-2	0	85-100	85-100	55-65	25-35	20-30	5-10
	2-17	Loam, clay loam, sandy clay loam	CL	A-6	0	85-100	85-100	70-90	50-75	30-40	10-20
	17	Unweathered bedrock	----	----	----	----	----	----	----	----	----
130 Bosler	0-8	Sandy loam	SM	A-4	0	80-100	75-100	55-85	35-50	20-30	NP-5
	8-24	Sandy clay loam, sandy loam	SC, SM-SC	A-6, A-4	0	80-100	75-100	65-85	35-50	25-35	5-15
	24-60	Very gravelly sand, very gravelly loamy sand	GP, GP-GM	A-1	0	25-40	25-40	5-25	0-10	----	NP
Alcova	0-5	Sandy clay loam, gravelly sandy clay loam	SM	A-2	0-5	85-95	80-90	50-60	25-35	----	NP
	5-17	Sandy clay loam, gravelly sandy clay loam	GC, SC	A-2, A-6	0-5	60-95	55-90	50-75	25-50	30-40	11-20
	17-30	Very gravelly loam	GM-GC, GC	A-1, A-2	5-25	25-55	20-50	20-45	15-35	20-30	5-10
132 Bowbac	0-3	Fine sandy loam	SM	A-4	0	90-100	90-100	65-80	35-50	15-25	NP-5
	3-26	Sandy clay loam	CL	A-6	0	90-100	90-100	70-85	50-60	25-40	10-20
	26-37	Loam, sandy loam, fine sandy loam	SC, CL	A-4, A-6	0	90-100	90-100	60-80	45-55	25-35	5-15
			SM-SC, CL-ML	----	----	----	----	----	----	----	----
Hiland	37	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-2	Fine sandy loam	SM	A-2, A-4	0	95-100	90-100	65-75	30-40	20-25	NP-5
	2-26	Sandy clay loam	SC, CL	A-6	0	95-100	90-100	60-80	40-60	30-40	10-20
	26-32	Sandy loam, sandy clay loam, fine sandy loam	SM-SC, SC	A-2, A-4	0	95-100	90-100	50-75	30-50	20-30	5-15
	32-60	Stratified fine sandy loam to loamy sand	SM	A-2	0	85-100	75-100	45-75	15-30	20-25	NP-5

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
134 Bowbac	0-4	Sandy loam	SM	A-4	0	90-100	90-100	65-80	35-50	15-25	NP-5
	4-17	Sandy clay loam	CL	A-6	0	90-100	90-100	70-85	50-60	25-40	10-20
	17-22	Loam, sandy loam fine sandy loam	SM-SC, CL-ML	A-4, A-6	0	90-100	90-100	60-80	45-55	25-35	5-15
Taluca	22	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Sandy loam	SM	A-4	0	95-100	90-100	70-85	35-50	20-30	NP-5
	4-9	Sandy loam, fine sandy loam	SM	A-2, A-4	0	95-100	90-100	60-75	25-40	15-25	NP-5
Terro	9	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-3	Fine sandy loam	SM	A-2, A-4	0-15	100	100	60-90	30-45	----	NP
	3-17	Sandy loam	SM	A-2, A-4	0-15	100	100	60-90	30-45	20-25	NP-5
137 Brownsto	17-34	Sandy loam, fine sandy loam	SM	A-2, A-4	0-15	100	100	60-90	30-45	20-25	NP-5
	0-3	Cobbly loam	SM-SC, GM-GC, CL-ML	A-4	20-30	70-85	65-80	55-75	40-55	20-30	5-10
	3-16	Very cobbly sandy loam, very gravelly loam	GM	A-1, A-2	10-45	40-60	35-55	25-45	15-35	20-25	NP-5
Lupinto	16-60	Extremely cobbly sand, very cobbly sand	GR, GP-GM	A-1	55-65	45-65	40-60	20-45	0-10	----	NP
	0-3	Clay loam	ML	A-4	0-5	85-95	85-95	75-85	55-65	15-25	NP-5
	3-8	Very gravelly loam, very gravelly clay, loam, very gravelly sandy clay loam	CL	A-6	0-5	85-95	85-95	70-80	55-65	25-35	10-15
138 Blazon	8-60		SC	A-2	0-5	30-50	30-50	25-45	15-35	30-45	10-25
	0-3	Clay loam, sandy clay loam, loam	CL	A-6	0-5	80-100	80-100	75-95	50-75	35-40	15-20
	3-14	Unweathered bedrock	CL	A-6	5-10	80-100	80-100	75-95	50-75	30-40	10-20
Cragosen	14		----	----	----	----	----	----	----	----	----
	0-5	Gravelly loam	CL-ML, ML GM-GC	A-4, A-2	5-10	65-85	60-75	45-60	30-55	20-30	NP-10
	5-18	Very gravelly loam, extremely gravelly loam, very gravelly loam, sandy loam	GM-GC, GM	A-2, A-4 A-1	15-30	30-55	25-55	20-50	10-40	20-30	NP-10
	18	Unweathered bedrock	----	----	----	----	----	----	----	----	----

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Worffman	0-2	Loam, clay loam, sandy clay loam Unweathered bedrock	SM-SC, SM CL	A-2 A-6	0 0	85-100 85-100	85-100 85-100	55-65 70-90	25-35 50-75	20-30 30-40	5-10 10-20
	2-17 17										
140 Cadoma	0-2	Clay, silty clay, silty clay loam Unweathered bedrock	CL, CH CL, CH	A-7 A-7	0-5 0	95-100 100	95-100 100	85-95 85-95	80-90 80-90	45-55 40-65	20-30 20-35
	2-13										
Renohill	13-36	Clay, clay loam Unweathered bedrock	CL, CH ----	A-7 ----	0 ----	100 ----	100 ----	80-90 ----	75-85 ----	40-55 ----	25-35 ----
	36										
Sanday	0-3	Clay loam Clay loam, clay Clay loam Unweathered bedrock	CL CL, CH CL	A-6 A-7, A-6 A-6	0 0 0	85-100 95-100 85-100	80-100 90-100 80-100	80-95 90-100 80-95	70-90 75-95 70-80	30-40 35-65 30-40	10-20 20-35 15-25
	3-24 24-29 29										
149 Chipendale	0-4	Clay loam Clay, clay loam Unweathered bedrock	CL CL, CH ----	A-6, A-7 A-7 ----	0 0 ----	100 100	90-100 95-100	85-95 85-100	75-90 75-95	35-50 40-55	15-30 20-30
	4-13 13										
Chipenhill	0-2	Clay loam Clay loam, clay Clay loam, clay	CL CL, CH CL, CH	A-6, A-7 A-7 A-7	0 0 0	95-100 95-100 95-100	95-100 95-100 95-100	80-90 85-95 85-95	70-85 75-90 75-90	35-50 40-55 40-55	15-25 20-30 20-30
	2-17 17-60										
150 Chipendale	0-1	Clay loam Clay, clay loam, silty clay Unweathered bedrock	CL CL ----	A-7 A-7 ----	0-5 0 ----	95-100 95-100	95-100 95-100	90-100 90-100	80-90 80-90	40-55 40-55	20-30 20-30
	1-11 11										
Razsun	0-1	Clay loam Clay loam, clay Clay loam, clay	CL CL, CH CL, CH	A-6, A-7 A-7 A-7	0 0 0	95-100 95-100 95-100	95-100 95-100 95-100	80-90 85-95 85-95	70-85 75-90 75-90	35-50 40-55 40-55	15-25 20-30 20-30
	1-5 5-9										
167 Cushman	0-3	Clay loam Clay loam, clay Clay loam, clay Unweathered bedrock	CL CL CL ----	A-6, A-7 A-7 A-7 ----	0 0 0 ----	100 100 100	95-100 95-100 95-100	85-95 85-100 85-100	75-85 80-90 80-90	35-45 40-50 40-50	15-20 20-25 20-25
	3-11 11-21 21										
Forkwood	0-3	Very fine sandy loam Clay loam, loam Loam, clay loam Weathered bedrock	CL-ML, ML CL CL ----	A-4 A-6 A-6 ----	0 0 0 ----	90-100 90-100 90-100	90-100 90-100 90-100	70-85 80-90 80-90	60-70 70-80 70-80	20-30 30-40 30-40	NP-10 10-20 10-20
	3-19 19-24 24										
Forkwood	0-3	Loam Clay loam, loam Loam, clay loam	ML, CL-ML CL CL	A-4 A-6 A-6	0 0 0	75-100 75-100 75-100	75-100 75-100 75-100	70-90 70-90 70-90	50-70 55-75 55-75	20-30 25-35 25-40	NP-10 10-20 10-25
	3-22 22-60										

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
175 Duneland											
178 Effington	0-2 2-60	Clay loam, clay silty clay loam	CL CL, CH	A-6 A-7	0 0	75-100 75-100	75-100 70-100	65-95 65-95	55-75 50-85	10-20 20-35	
Uffens (b)	0-1 0-1	Silty loam, loam Fine sandy loam, sandy loam	CL-ML SM, ML	A-4 A-4	0 0	100 100	100 100	85-100 60-85	65-85 35-55	25-30 15-35	5-10 NP-5
	1-10	Sandy clay loam, clay loam, silty clay loam	SC, CL	A-6	0	100	100	80-100	40-85	30-40	10-20
	10-54	Sandy clay loam, silty clay loam	SC, CL	A-6	0	100	100	80-100	40-85	30-40	10-20
	54-57 57-70	Silty clay Sand, loamy sand	CL, CH SP-SM, SM	A-7 A-2, A-3	0 0	100 100	100 100	95-100 50-70	90-95 5-30	45-60 ----	20-35 NP
179 Enos	0-2 2-15 15-34	Loamy sand Unweathered bedrock	SM SM ----	A-2 A-2, A-1 ----	0 0 ----	75-100 75-100 ----	75-100 75-100 ----	50-65 40-60 ----	25-35 15-25 ----	----	NP NP ----
Wallson	0-2 4-38	Loamy fine sand Sandy loam, fine sandy loam	SM SM	A-2 A-2, A-4	0 0	75-100 75-100	75-100 75-100	50-75 50-75	15-30 30-45	----	NP NP-5
	38-60	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-75	30-45	----	NP
186 Forkwood	0-7 7-24 24-60	Loam Clay loam, loam Loam, clay loam	ML, CL-ML CL CL	A-4 A-6 A-6	0 0 0	75-100 75-100 75-100	75-100 75-100 75-100	70-90 70-90 70-90	50-70 55-75 55-75	20-30 25-35 25-40	NP-10 10-20 10-25
Keyner	0-3 7-10	Loam Sandy clay loam, clay loam, loam	CL CL	A-6 A-6	0 0	75-100 75-100	75-100 75-100	65-80 65-80	50-60 50-60	30-35 30-40	10-15 10-20
	10-23	Sandy clay loam, clay loam, loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-40	10-20
	23-60	Fine sandy loam, sandy clay loam, loam	SM-SC, CL-ML	A-4	0	75-100	75-100	55-75	40-55	20-25	5-10
187 Forkwood	0-2 2-13 13-60	Loam Clay loam, loam Loam, clay loam	ML, CL-ML CL CL	A-4 A-6 A-6	0 0 0	75-100 75-100 75-100	75-100 75-100 75-100	70-90 70-90 70-90	50-70 55-75 55-75	20-30 25-35 25-40	NP-10 10-20 10-25
Ulm	0-2 2-16 16-60	Clay loam Clay loam, clay Clay loam, clay	CL CL CL	A-6 A-6 A-6	0-5 0-5 0-5	95-100 75-100 75-100	95-100 75-100 75-100	80-100 75-100 75-100	70-80 60-80 60-80	30-40 35-45 30-40	10-20 20-30 15-20

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3" (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
188 Forkwood	0-4	Fine sandy loam	SM	A-2	0	75-100	75-100	50-85	20-35	20-25	NP-5
	4-22	Clay loam, loam	CL	A-6	0	75-100	75-100	70-90	55-75	25-35	10-20
	22-60	Loam, clay loam	CL	A-6	0	75-100	75-100	70-90	55-75	25-35	10-25
Zigweid	0-3	Loam	CL	A-6	0	75-100	75-100	70-85	60-70	25-35	10-15
	3-60	Loam, clay loam	CL	A-6	0	75-100	75-100	70-85	60-70	25-40	10-20
190 Griffy	0-2	Sandy loam	SM	A-2, A-4	0	80-100	80-100	60-70	30-40	15-20	NP-5
	2-18	Sandy clay loam, gravelly sandy clay loam, clay loam	CL, GC, SC	A-2, A-6	0	50-100	50-100	40-90	25-55	25-35	10-15
	18-32	Gravelly fine sandy loam, fine sandy loam, sandy loam	SM, GM	A-2, A-4	0	50-100	50-100	40-75	25-50	15-20	NP-5
	32-60	Sandy loam, loamy sand, fine sandy loam	SM	A-2	0	75-100	75-100	60-75	15-25	----	NP
191 Griffy	0-2	Sandy clay loam, gravelly sandy clay loam, clay loam	CL-ML, CL, GC, SC	A-4, A-6, A-2, A-6	0	75-100	75-95	65-80	50-75	20-35	5-10
	2-21	Gravelly fine sandy loam, fine sandy loam, sandy loam	SM, GM	A-2, A-4	0	50-100	50-100	40-75	25-50	15-20	NP-5
	21-32	Gravelly fine sandy loam, sandy loam	SM	A-2	0	75-100	75-100	60-75	15-25	----	NP
	32-60	Sandy loam, loamy sand, fine sandy loam	SM	A-2	0	75-100	75-100	60-75	15-25	----	NP
Emblem	0-3	Loamy, sandy clay loam	CL-ML, CL-ML	A-4, A-4	0	80-95	75-95	65-90	50-75	25-30	5-10
	3-17	Very gravelly sand	GR, GP-GM	A-1	0	80-95	75-95	65-85	50-60	25-30	5-10
	17-26	Very gravelly loamy sand, extremely gravelly loamy sand	GM	A-1	10-25	30-70	20-65	10-40	0-20	----	NP
194 Haverdad	0-3	Loam	CL-ML, ML	A-4	0	75-100	75-100	70-90	50-70	25-30	NP-10
	3-60	Stratified fine sandy loam to silty clay loam	CL-ML, CL	A-4, A-6	0	75-100	75-100	70-90	50-60	25-35	5-15
Clarkefen	0-6	Fine sandy loam	SM	A-2, A-4	0	100	95-100	55-75	25-40	20-25	NP-5
	6-60	Stratified loamy sand to sandy clay loam	SM	A-2	0-5	95-100	90-100	55-70	25-35	20-25	NP-5

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
195 Haverdard	0-2 2-60	Loam Stratified fine sandy loam to silty clay loam	CL-ML, ML CL-ML, CL	A-4 A-4, A-6	0 0	75-100	75-100	70-90	50-70	20-30	NP-10 5-15
						75-100	75-100	70-90	50-60	25-35	
Clarkelen	0-2 2-60	Sandy loam Stratified loamy sand to sandy clay loam	SM SM	A-2, A-4 A-2	0 0-5	100	95-100	55-75	25-40	20-25	NP-5 NP-5
						95-100	90-100	55-70	25-35	20-25	
199 Hiland	0-7 7-25 25-42	Loamy sand Sandy clay loam Sandy loam, sandy clay loam, fine sandy loam	SM SC, CL SM-SC, SC	A-2 A-6 A-2, A-4 A-6	----- 0 0	95-100	90-100	50-60	15-25	-----	NP 10-20 5-15
						95-100	90-100	60-80	40-60	30-40	
						95-100	90-100	50-75	30-50	20-30	
						85-100	75-100	45-75	15-30	20-25	
201 Hiland	0-2 2-22 22-60	Sandy loam Sandy clay loam Stratified fine sandy loam to loamy sand	SM SC, CL SM	A-2, A-4 A-6 A-2	0 0 0	95-100	90-100	65-75	30-40	20-25	NP-5 10-20 NP-5
						95-100	90-100	60-80	40-60	30-40	
						85-100	75-100	45-75	15-30	20-25	
205 Irson	0-10 10-14	Very channery sandy clay loam Very cobbly sandy clay loam, extremely cobbly sandy clay loam Very gravelly sandy clay loam Unweathered bedrock	SM-SC SC GC -----	A-2 A-2 A-1, A-2 -----	10-25 40-60 5-15 -----	65-85	45-60	30-50	20-35	25-35	5-10 10-15 10-15 -----
						60-85	55-75	30-50	15-30	30-35	
						35-65	30-60	20-40	20-35	30-35	
						-----	-----	-----	-----	-----	
Kezar											
Rock outcrop											
207 Keeline	3-60	Sandy loam, fine sandy loam	SM, SM-SC	A-2, A-4	0	100	95-100	60-85	25-50	20-30	NP-10
Taluca	0-4	Fine sandy loam	SM	A-4	0	95-100	90-100	70-85	35-50	20-30	NP-5
	4-14	Sandy loam, fine sandy loam	SM	A-2, A-4	0	95-100	90-100	60-75	25-40	15-25	NP-5
	14	Unweathered bedrock	-----	-----	-----	-----	-----	-----	-----	-----	-----

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Rock outcrop 208 Keyner	0-6	Sandy clay loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-35	10-15
	6-11	Sandy clay loam, clay loam, loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-40	10-20
	11-18	Sandy clay loam, clay loam, loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-40	10-20
	18-60	Fine sandy loam, sandy clay loam, loam	SM-SC, CL-ML	A-4	0	75-100	75-100	55-75	40-55	20-25	5-10
209 Keyner	0-1	Sandy loam	SM	A-2	0	75-100	75-100	55-75	15-25	15-20	NP-5
	1-12	Sandy clay loam, clay loam, loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-40	10-20
	12-31	Sandy clay loam, clay loam, loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-40	10-20
	31-60	Fine sandy loam, sandy clay loam, loam	SM-SC, CL-ML	A-4	0	75-100	75-100	55-75	40-55	20-25	5-10
Absted	0-3	Sandy clay loam	CL	A-6	0-5	85-100	85-100	75-100	60-80	30-40	10-15
	3-14	Silty clay loam, silty clay, clay	CL, CH	A-7	0	85-100	85-100	80-90	75-85	40-55	20-30
	14-16	Silty clay, silty clay loam, clay loam	CL	A-7	0	85-100	85-100	80-100	70-90	40-50	20-30
Slickspots 210 Keyner	0-4	Silty clay loam, silty clay	CL, CH	A-7	0	100	100	95-100	85-95	45-55	20-30
	4-60		CL, CH	A-7	0	100	100	95-100	85-95	45-55	20-30
Hiland	0-2	Sandy loam	SM	A-2, A-4	0	95-100	90-100	65-75	30-40	20-25	NP-5
	2-14	Sandy clay loam	SC, CL	A-6	0	95-100	90-100	60-80	40-60	30-40	10-20
	14-22	Sandy loam, sandy clay loam, fine sandy loam	SM-SC, SC	A-2, A-4	0	95-100	90-100	50-75	30-50	20-30	5-15
214 Lolite	22-60	Stratified fine sandy loam to loamy sand	SM	A-2	0	85-100	75-100	45-75	15-30	20-25	NP-5
	0-2	Clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	2-6	Clay, clay loam, silty clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	6-10	Clay, clay loam, silty clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	10	Unweathered bedrock	----	----	----	----	----	----	----	----	----

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
215 Lolite	0-2	Clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	2-12	Clay, clay loam, silty clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	12-15	Clay, clay loam, silty clay	CL, CH	A-7	0	95-100	95-100	85-100	80-95	40-60	20-35
	15	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Rock outcrop											
216 Lonebear	0-1	Clay loam	CL, CH	A-7	0	95-100	95-100	80-95	75-90	40-55	20-30
	1-12	Clay loam, clay, silty clay	CL, CH	A-7	0	100	95-100	85-100	80-95	40-55	20-30
	12-26	Clay loam, clay, silty clay	CL, CH	A-7	0	100	95-100	85-100	80-95	40-55	20-30
	26-60	Clay loam, clay, silty clay	CL, CH	A-7	0	100	95-100	85-100	80-95	40-55	20-30
217 Lupinto	0-2	Gravelly loam	SM-SC, CL-ML	A-4	0-10	70-85	60-75	40-60	35-55	25-30	5-10
	2-5	Gravelly clay loam	CL	A-6	0-10	70-85	60-75	60-70	50-60	35-40	15-20
	5-48	Very gravelly sandy clay loam, very gravelly loam	GC	A-2	10-20	50-65	40-55	25-50	20-35	30-35	10-15
	48	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Alcova	0-4	Sandy clay loam, gravelly sandy clay loam	SM	A-2	0-5	35-95	80-90	50-60	25-35	----	NP
	4-16		GC, SC	A-2, A-6	0-5	60-95	55-90	50-75	25-50	30-40	11-20
220 Middlewood	0-5	Clay loam	CL	A-6	0	75-100	75-100	70-100	55-75	35-40	15-20
	5-18	Clay, gravelly clay	GC, CH, CL	A-7	0	50-100	50-100	50-100	45-90	40-65	20-40
	18	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Kather	0-3	Clay loam	CL, CH	A-6, A-7	0	80-100	75-100	70-95	55-75	30-60	15-30
	3-24	Clay	CH	A-7	0	80-100	75-100	70-100	60-90	40-70	20-35
	24	Weathered bedrock	----	----	----	----	----	----	----	----	----
221 Milren	0-3	Sandy loam	SM	A-4	0	85-100	75-100	55-70	35-50	20-25	NP-5
	3-14	Sandy clay, clay	CH, CL	A-7	0	85-100	75-100	65-90	40-75	40-60	20-35
	14-27	Sandy clay loam, loam	CL, CL-ML, ML-SC, SC	A-4, A-6	0	85-100	75-100	70-95	40-70	25-35	5-15
	27-60	Fine sandy loam	ML, SM	A-4, A-6	0	85-100	75-100	70-95	45-60	20-25	NP-5

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Bosler	0-2	Sandy loam	SM	A-4	0	80-100	75-100	55-85	35-50	20-30	MP-5
	2-22	Sandy clay loam, sandy loam	SC, SM-SC	A-6, A-4	0	80-100	75-100	65-85	35-50	25-35	5-15
	22-60	Very gravelly sand, very gravelly loamy sand	GP, GP-GM	A-1	0	25-40	25-40	5-25	0-10	----	NP
Rock River	0-3	Sandy loam	SM	A-2, A-4	0-5	85-100	85-100	60-80	30-45	----	NP
	3-22	Sandy clay loam, gravelly sandy clay loam	SC	A-6	0-5	90-100	70-100	60-90	35-45	25-35	10-20
	22-60	Sandy loam, fine sandy loam, sandy clay loam	SM	A-2, A-4	0-5	80-100	80-100	50-75	25-45	20-30	NP-5
222 Mudray	0-2	Clay, sandy clay	SM	A-2	0	75-100	75-100	50-70	25-35	20-25	NP-5
	2-12	Clay loam, silty clay loam	CL, CH	A-7	0	75-100	75-100	70-100	50-90	45-55	20-30
	12-18	Weathered bedrock	CL	A-6	0	75-100	75-100	65-95	65-85	30-40	15-20
Bributte	18	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-1	Clay, clay loam	CL, CH	A-7	0	75-100	75-100	70-95	60-80	40-65	20-35
	1-17	Unweathered bedrock	CL, CH	A-7	0	75-100	75-100	70-95	60-80	40-65	20-35
Birdsley	0-1	Clay loam, sandy clay loam, silty clay loam	CL	A-6, A-7	0	95-100	95-100	90-100	70-85	35-45	15-25
	1-18	Unweathered bedrock	CL	A-6, A-7	0	95-100	95-100	80-100	50-85	35-45	15-25
	18	Unweathered bedrock	----	----	----	----	----	----	----	----	----
223 Nathrop	0-4	Very stony loam	CL-ML	A-4	25-50	80-90	80-90	65-85	50-70	20-30	5-10
	4-18	Very stony clay loam extremely stony clay loam, very cobbly clay loam	CL	A-6	40-60	70-80	70-80	60-75	50-65	30-40	10-15
	18-32	Very stony clay loam extremely stony loam	GM-GC	A-4	50-60	55-75	55-65	45-60	35-50	20-30	5-10
Starley	32	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-7	Cobbly loam	CL-ML	A-4	25-30	75-95	65-80	60-75	50-65	20-30	5-10
	7-13	Very cobbly loam, very gravelly loam, very gravelly clay loam	GM-GC, GC	A-2, A-4	35-60	55-70	45-60	40-55	30-50	25-35	5-15
225 Nunnston	13	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-7	Clay, clay loam	CL, CH	A-6, A-7	0	100	95-100	85-100	60-80	35-45	15-25
	7-27	Clay, clay loam	CL, CH	A-7	0	100	95-100	85-100	85-95	45-55	25-35
	27-60	Clay, clay loam	CL	A-7	0	100	95-100	85-95	65-85	40-50	20-30

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
226 Oceanet	0-2	Sandy loam	SM	A-2, A-1	0-5	75-100	75-100	45-65	20-30	15-20	NP-5
	2-14	Fine sandy loam, sandy loam	SM, GM	A-1, A-2	0-5	55-80	50-75	35-55	20-35	15-20	NP-5
Persayo	14	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Loam	CL, CL-ML	A-4, A-6	0	100	100	85-95	60-75	25-35	5-15
	4-16	Loam, silty clay loam	CL, CL-ML	A-4, A-6	0	95-100	95-100	85-100	70-90	25-35	5-15
	16	Weathered bedrock	----	----	----	----	----	----	----	----	----
227 Orella	0-2	Clay loam	CH, CL	A-6, A-7	0	100	100	95-100	70-95	38-65	20-40
	2-10	Clay, clay loam	CH	A-7	0	100	100	90-100	75-95	50-70	30-50
Cadoma	10	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Clay, silty clay, silty clay loam	CL, CH	A-7	0-5	95-100	95-100	85-95	80-90	45-55	20-30
	4-14	Clay, clay loam	CL, CH	A-7	0	100	100	85-95	80-90	40-65	20-35
	14-28	Clay, clay loam	CL, CH	A-7	0	100	100	80-90	75-85	40-55	25-35
Petrie	28	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-5	Clay loam	CL	A-6	0	80-100	75-100	75-100	60-80	35-40	15-20
228 Orella	5-60	Clay loam, clay, silty clay	CL, CH	A-7	0	80-100	75-100	75-100	60-95	40-55	20-35
	0-2	Silty clay loam	CH, CL	A-6, A-7	0	100	100	95-100	70-95	38-65	20-40
229 Orpha	2-12	Clay, clay loam	CH	A-7	0	100	100	90-100	75-95	50-70	30-50
	12	Unweathered bedrock	----	----	----	----	----	----	----	----	----
232 Persayo	0-2	Loamy sand	SM	A-2	0	100	95-100	50-60	20-30	----	NP
	2-60	Sand, fine sand, loamy sand	SM	A-2	0	100	95-100	60-80	15-35	----	NP
Greybu 11	0-5	Loam	CL, CL-ML	A-4, A-6	0	100	100	85-95	60-75	25-35	5-15
	5-15	Loam, silty clay loam	CL, CL-ML	A-4, A-6	0	95-100	95-100	85-100	70-90	25-35	5-15
	15	Weathered bedrock	----	----	----	----	----	----	----	----	----
254 Rock outcrop	0-2	Clay loam	CL	A-6	0	100	100	90-100	70-80	35-40	15-20
	2-5	Clay loam	CL	A-6	0	100	100	90-100	70-80	35-40	15-20
	5-24	Weathered bedrock	----	----	----	----	----	----	----	----	----

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Birdsley	0-2	Clay loam, sandy clay loam, silty clay loam	CL	A-6, A-7	0	95-100	95-100	90-100	70-85	35-45	15-25
	2-17					95-100	95-100	80-100	50-85		
256 Rock outcrop	17	Unweathered bedrock	----	----	----	----	----	----	----	----	----
						----	----	----	----		
Ustic Torriorthents											
Rubble land											
264 Roughlock	0-3	Loam, silt loam, silty clay loam	CL-ML	A-4	0	95-100	95-100	95-100	75-95	20-25	5-10
	3-32					95-100	95-100	95-100	75-95		
	32-60	Loam, silt loam, silty clay loam	CL-ML	A-4	0	95-100	95-100	95-100	75-95	20-25	5-10
						----	----	----	----		
270 Saddle	0-3	Sandy loam	SM	A-2, A-4	0	75-100	75-100	50-70	30-40	20-25	NP-5
	3-14					75-100	75-100	65-90	35-60		
	14-18	Sandy loam, fine sandy loam	SM, ML, SM-SC, CL-ML	A-4	0	75-100	75-100	55-75	35-65	20-30	NP-10
						----	----	----	----		
	18-30	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-70	30-50	20-25	NP-5
	30					----	----	----	----		
Griffy	0-3	Sandy clay loam, gravelly sandy clay loam, clay loam	CL-ML, CL, GC, SC	A-4, A-6	0	75-100	75-95	65-80	50-75	20-35	5-15
	3-21					50-100	50-100	40-90	25-55		
	21-60	Gravelly fine sandy loam, fine sandy loam, sandy loam	SM, GM	A-2, A-4	0	50-100	50-100	40-75	25-50	15-20	NP-5
						----	----	----	----		
275 Shingle	0-2	Loam	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	NP-10
	2-13					75-100	75-100	65-100	50-85		
	13	Unweathered bedrock	----	----	----	----	----	----	----	----	----
						----	----	----	----		
Taluze	0-3	Sandy loam	SM	A-4	0	95-100	90-100	70-85	35-50	20-30	NP-5
	3-12					95-100	90-100	60-75	25-40		
Rock outcrop	12	Unweathered bedrock	----	----	----	----	----	----	----	----	----
						----	----	----	----		

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
276 Shingle	0-1	Loam	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	MP-10
	1-11	Clay loam, loam silty clay loam	CL	A-6	0	75-100	75-100	65-100	50-85	30-40	10-20
Theedle	13	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-1	Fine sandy loam	SM	A-4	0	95-100	95-100	70-80	35-45	-----	NP
277 Silhouette	1-26	Loam, clay loam	CL-ML, CL	A-4, A-6	0	95-100	95-100	70-85	60-70	25-40	5-20
	26	Weathered bedrock	----	----	----	----	----	----	----	----	----
278 Silhouette	0-3	Clay loam	CL	A-6, A-7	0	90-100	90-100	85-95	75-90	35-50	15-30
	3-17	Clay, clay loam	CL, CH	A-7	0	100	95-100	85-100	85-95	40-55	20-35
Petrie	17-60	Clay loam, clay	CL	A-6, A-7	0	100	95-100	85-100	75-95	35-50	15-30
	0-2	Clay loam	CL	A-6, A-7	0	90-100	90-100	85-95	75-90	35-50	15-30
281 Sunup	2-23	Clay, clay loam	CL, CH	A-7	0	100	95-100	85-100	85-95	40-55	20-35
	23-60	Clay loam, clay	CL	A-6, A-7	0	100	95-100	85-100	75-95	35-50	15-30
Kishona	0-3	Clay loam	CL	A-6	0	80-100	75-100	75-100	60-80	35-40	15-20
	3-60	Clay loam, clay, silty clay	CL, CH	A-7	0	80-100	75-100	75-100	60-95	40-55	20-35
Rock outcrop	0-4	Very gravelly loam	GC, GM-GC	A-2, A-6	5-15	40-65	40-60	30-45	25-40	25-35	5-15
	4-13	Very gravelly loam, very gravelly sandy clay loam	GC, GM-GC	A-2, A-6	5-15	40-65	40-60	30-45	25-40	25-35	5-15
282 Terro	0-3	Loam	ML	A-4	0	85-100	75-100	65-85	55-75	25-30	NP-5
	3-28	Loam, clay loam, silty clay loam	CL-ML, CL	A-4, A-6	0	85-100	75-100	70-90	65-85	20-30	5-15
Vonalee	0-3	Sandy loam	SM	A-2, A-4	0-15	100	100	60-90	30-45	-----	NP
	3-28	Sandy loam, fine sandy loam	SM	A-2, A-4	0-15	100	100	60-90	30-45	20-25	NP-5
283 Theedle	28-34	Sandy loam, fine sandy loam	SM	A-2, A-4	0-15	100	100	60-90	30-40	20-25	NP-5
	0-2	Fine sandy loam	SM-SC, SM	A-2, A-4	0	100	95-100	55-75	30-40	20-30	NP-10
283 Theedle	2-60	Sandy loam, fine sandy loam	SM-SC, SM	A-2, A-4	0	100	95-100	55-75	30-40	20-30	NP-10
	0-3	Clay loam	CL	A-4	0	95-100	95-100	70-85	60-75	30-40	10-20
	3-27	Loam, clay loam	CL-ML, CL	A-4, A-6	0	95-100	95-100	70-85	60-70	25-40	5-20
	27	Weathered bedrock	----	----	----	----	----	----	----	----	----

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Shingle	0-2 2-17 17	Loam Clay loam, loam silty clay loam Unweathered bedrock	ML CL ----	A-4 A-6 ----	0-5 0 ----	75-100 75-100 ----	75-100 75-100 ----	70-95 65-100 ----	55-75 50-85 ----	25-35 30-40 ----	NP-10 10-20 ----
Kishona	0-5 5-60	Clay loam Loam, clay loam, silty clay loam	CL CL-ML, CL	A-6 A-4, A-6	0 0	85-100 85-100	75-100 75-100	70-90 70-90	70-80 65-85	30-40 20-30	10-20 5-15
284 Threetop	0-2 2-13 13-18 18-21	Sandy loam Sandy clay loam, clay loam Sandy clay loam, sandy loam, loam Very gravelly sandy clay loam, very gravelly sandy loam Gravelly loam	SM-SC CL-ML CL SM-SC CL-ML GM-GC	A-4 A-6 A-4 A-2	0 0 0 0-5	90-100 90-100 90-100 35-60	85-100 85-100 85-100 35-50	60-80 60-80 60-80 30-45	45-60 50-65 45-60 20-35	25-30 30-40 25-30 20-30	5-10 10-15 5-10 5-10
Sunup	21-24 24 0-2 2-6 6-10	Unweathered bedrock Very gravelly sandy clay loam Very gravelly loam, very gravelly sandy clay loam Unweathered bedrock	GM-SC, CL-ML ---- GC, GM-GC GC, GM-GC ----	A-4 ---- A-2, A-6 A-2, A-6	0 ---- 5-15 5-15	50-75 ---- 40-65 40-65	50-75 ---- 40-60 40-60	45-60 ---- 30-45 30-45	45-55 ---- 25-40 25-40	20-30 ---- 25-35 25-35	5-10 ---- 5-15 5-15
Frontier	0-4 4-14 14-17 17	Sandy loam Sandy clay loam, clay loam Sandy clay loam, clay loam Unweathered bedrock	SM-SC, SM CL, SC CL, SL ----	A-4 A-6 A-6 ----	0-5 0-5 0-5 ----	80-100 80-95 80-95 ----	80-100 80-95 80-95 ----	50-70 50-70 50-70 ----	35-50 45-60 45-60 ----	20-30 30-40 30-40 ----	NP-10 15-20 15-20 ----
289 Typic Torrifluvents											
290 Uffens											
291 Uffens											
Typic Torrifluvents											

Table B-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
293 Ulm	0-2	Loam	CL-ML	A-4	0-5	95-100	95-100	80-100	70-80	20-30	5-10
	2-24	Clay loam, clay	CL	A-6, A-7	0-5	75-100	75-100	75-100	60-80	35-45	20-30
	24-60	Clay loam, clay	CL	A-6	0-5	75-100	75-100	75-100	60-80	30-40	15-20
Absted	0-2	Fine sandy loam	SM	A-4	0-5	85-100	85-100	65-80	35-50	15-20	NP-5
	2-8	Silty clay loam, silty clay, clay	CL	A-7	0	85-100	85-100	80-90	75-85	40-55	20-30
	8-18	Silty clay, silty clay loam, clay loam	CL	A-7	0	85-100	85-100	80-100	70-90	40-50	20-30
	18-60	Clay loam, sandy clay loam	CL	A-6	0	85-100	85-100	70-85	60-75	35-40	15-20
301 Vonalee	0-3	Loamy sand	SM	A-2	0	100	95-100	70-90	20-30	----	NP
	3-19	Sandy loam, fine sandy loam	SM-SC, SM	A-2, A-4	0	100	90-100	55-75	30-40	20-30	NP-10
	19-60	Loamy sand, loamy fine sand	SM	A-2	0	100	90-100	70-90	20-30	----	NP
Hiland	0-5	Sandy loam	SM	A-2, A-4	0	95-100	90-100	65-75	30-40	20-25	NP-5
	5-26	Sandy clay loam	SC, CL	A-6	0	95-100	90-100	60-80	40-60	30-40	10-20
	26-60	Sandy loam, sandy clay loam, fine sandy loam	SM-SC, SC	A-2, A-4, A-6	0	95-100	90-100	50-75	30-50	20-30	5-15
306 Worf											
Bowbac											
310 Zigweid	0-3	Loam	CL	A-6	0	75-100	75-100	70-85	60-70	25-35	10-15
	3-60	Loam, clay loam	CL	A-6	0	75-100	75-100	70-85	60-70	25-40	10-20
311 Zigweid	0-3	Loam	CL	A-6	0	75-100	75-100	70-85	60-70	25-35	10-15
	3-60	Loam, clay loam	CL	A-6	0	75-100	75-100	70-85	60-70	25-40	10-20
Theedle	0-8	Loam	CL-ML	A-4	0	95-100	95-100	70-85	60-70	20-30	5-10
	8-36	Loam, clay loam	CL-ML, CL	A-4, A-6	0	95-100	95-100	70-85	60-70	25-40	5-20
	36	Weathered bedrock	----	----	----	----	----	----	----	----	----

a = Source: Data from draft Natrona County Soil Survey.

b = Source: See Glossary, Table A, for a description of properties.

b = Source: Data from series description (Form 5).

Table B-6. Engineering Properties of Soil Series of Park and Big Horn Counties. (a)

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Aldrich	0-4	Silty clay loam, silty clay	CL, CH	A-7	0	75-100	75-100	75-100	70-95	40-55	20-30
	4-60	Silty clay loam, silty clay	CL, CH	A-7	0	75-100	75-100	75-100	70-95	40-55	20-30
Apron	0-6	Fine sandy loam, sandy loam	SM	A-2, A-4	0	75-100	75-100	65-75	30-45	15-25	NP-5
	0-6 6-60	Loamy sand Fine sandy loam, sandy loam	SM SM	A-2 A-2, A-4	0 0	75-100 75-100	75-100 75-100	50-70 65-75	15-25 30-45	----- 15-25	NP NP-5
Arvada	0-4	Fine sandy loam, sandy loam	SM	A-4	0	90-100	75-100	60-80	35-50	15-20	NP-5
	0-4 0-4 4-14 14-60	Loam, silty loam Clay loam Clay, silty clay loam, clay loam Clay loam, silty clay loam, clay	CL-ML, CL CL CL, CH CL	A-4, A-6 A-6 A-7 A-7	0 0 0 0	95-100 100 80-100 90-100	95-100 95-100 75-100 75-100	85-95 85-100 70-100 70-100	70-80 60-80 65-95 55-90	20-30 30-40 40-65 40-50	5-15 15-20 20-35 15-25
Baroid	0-6	Loamy fine sand, sandy loam	SM	A-1, A-2	0-10	85-100	85-100	40-75	15-30	-----	NP
	6-60	Stratified loamy sand, fine sandy loam	SM	A-1, A-2	0-10	85-100	85-100	40-60	15-30	-----	NP
Binton	0-5	Clay loam, silty clay loam	CL	A-6	0-5	95-100	95-100	80-95	40-70	35-40	15-20
	5-6 6-60	Very fine sandy loam SR, very fine sandy loam, clay loam	ML CL	A-4 A-6	0 0	95-100 75-100	95-100 75-100	90-95 70-100	30-65 55-80	20-25 30-40	NP-5 10-20
Bowbac	0-5 0-5	Loam Sandy loam, fine sandy loam	CL-ML, CL SM	A-6, A-4 A-4	0 0	100 100	100 100	65-85 70-80	60-80 35-45	25-35 20-25	5-15 NP-5
	5-18	Clay loam, sandy clay loam	CL	A-6	0	100	100	60-80	50-70	30-40	10-20
Briquette	18-20 20-23 23	Clay loam Sandy loam Weathered bedrock	CL SM ----	A-6 A-4 -----	0 0 -----	100 100 -----	100 100 -----	70-90 65-75 -----	65-85 35-45 -----	30-40 20-25 -----	10-20 NP-5 -----
	0-3	Clay, clay loam, silty clay loam	CL, CH	A-7	0	75-100	75-100	70-95	60-80	40-65	20-35
	0-3	Gravelly clay, gravelly clay loam	CL, CH	A-7	0	70-85	60-75	55-70	50-60	40-65	20-35
	3-12 12	Clay, clay loam, silty clay loam Unweathered bedrock	CL, CH ----	A-7 -----	0 -----	75-100 -----	75-100 -----	70-95 -----	65-85 -----	40-65 -----	20-35 -----

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (percent)	Plasticity Index
						4	10	40	200		
Cestnik	0-24 24-60	Silty clay Gravelly sand	CL, CH GP	A-7 A-1	0-15 15-25	80-100 30-45	60-100 25-40	80-100 15-25	70-95 0-5	45-60 ----	20-30 NP
Chipeta	0-5	Silty clay, clay	CL	A-6, A-7	0	100	100	95-100	90-95	35-45	15-25
	0-5	Gravelly silty loam	CL	A-6	0	70-90	60-80	60-75	55-70	35-40	15-25
	0-5	Clay loam, silty clay loam	CL	A-6	0	100	100	90-95	80-90	30-40	10-20
Copeman	5-17	Silty clay loam, silty clay, clay	CL	A-6, A-7	0	100	100	95-100	90-95	35-45	15-25
	17	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-3 0-3 3-32	Loam Clay loam Loam, clay loam, gravelly clay loam	CL-ML CL CL, SC, GC	A-4 A-6 A-6, A-2	0 0 0	95-100 95-100 60-100	90-100 90-100 50-100	85-95 85-95 40-95	60-75 65-80 30-80	25-30 30-40 30-40	5-10 10-20 10-20
Deaver	32-41 41-60	Gravelly clay loam Gravelly silty loam	GC GM	A-2 A-1	0 0	45-60 45-60	35-50 35-50	25-40 25-35	15-35 15-25	30-40 ----	10-20 NP
	0-4 0-4 0-4	Loam, clay loam Silty clay loam Gravelly silty clay loam	CL CL CL	A-6 A-6 A-6	0 0 5-10	75-100 100 70-80	75-100 100 60-75	70-95 95-100 65-75	60-75 90-95 55-70	30-35 35-40 35-40	10-15 15-20 15-20
	4-24 24	Unweathered bedrock	CL, CH ----	A-7 ----	0 ----	75-100 ----	75-100 ----	75-100 ----	70-90 ----	45-55 ----	20-30 ----
Dobent	0-7 7-60	Loam, clay loam Stratified sandy loam, silty clay loam	CL-ML, CL CL-ML, CL	A-4, A-6 A-4, A-6	0 0	100 100	100 100	85-95 85-95	60-80 60-80	20-40 20-40	5-15 5-15
	0-2 0-2 0-2	Loam Clay loam Silty loam	CL-ML CL SM	A-4 A-6 A-2	0 0-10 0	80-95 75-95 80-95	75-95 75-95 75-95	65-90 70-85 50-70	50-75 50-70 25-35	25-30 30-35 ----	5-10 10-15 NP
	2-20	Loam, sandy clay loam	CL-ML	A-4	0	80-95	75-95	65-85	50-60	25-30	5-10
Emblem	20-60	Very gravelly sand, very gravelly loamy sand, extremely gravelly loamy sand	GP, GP-GM GM, SP	A-1	10-25	30-70	20-65	10-40	0-20	----	NP
	0-4 0-4 4-20 20-34	Sandy loam Loamy sand Sandy loam Loamy sand, sandy loam	SM SM, SP-SM SM SM	A-2 A-2, A-1 A-2 A-2, A-1	0 0 0 0	75-100 75-100 75-100 75-100	75-100 75-100 75-100 75-100	50-65 40-60 50-65 40-60	25-35 10-20 25-35 15-25	----	NP NP NP NP
	34	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Forkwood	0-2	Very fine sandy loam, loam	ML, CL-ML	A-4	0	75-100	75-100	70-90	50-70	20-30	NP-10
	0-2	Fine sandy loam, sandy loam	SM	A-2	0	75-100	75-100	50-85	20-35	20-25	NP-5
	2-19 19-60	Clay loam, loam Loam, clay loam	CL CL	A-6 A-6	0 0	75-100 75-100	75-100 75-100	70-90 70-90	55-75 55-75	25-35 25-40	10-20 10-25

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Forkwood	0-3	Clay loam, loam	CL	A-6	0	95-100	95-100	75-90	55-70	25-40	10-15
	3-16	Clay loam, loam	CL	A-6	0	95-100	95-100	80-95	65-80	30-40	10-15
	16-60	Stratified fine sandy loam, clay loam	CL-ML, CL	A-4, A-6	0	95-100	95-100	60-80	50-65	20-35	5-15
Ft. Collins	0-8	Loam, very fine sandy loam	ML	A-4	0	95-100	90-100	85-100	50-65	25-30	NP-5
	0-8	Sandy loam, fine sandy loam	SM, ML	A-4, A-2	0	95-100	90-100	60-80	30-55	15-25	NP-5
	0-8	Clay loam	CL	A-6	0	95-100	90-100	85-95	60-75	30-40	10-20
	8-18	Loam, clay loam	CL	A-6	0	95-100	90-100	85-95	60-75	25-40	10-20
	18-60	Loam, silty loam, fine sandy loam	CL-ML, ML	A-4	0	95-100	90-100	80-95	50-75	20-30	NP-10
Garland	0-4	Loam	CL-ML	A-4	0-10	80-100	75-100	65-90	50-75	25-30	5-10
	0-4	Clay loam	CL	A-6	0-10	80-100	75-100	65-95	55-70	30-40	10-15
	4-21	Clay loam	CL	A-6	0-10	80-100	75-100	65-95	55-75	30-40	10-15
	21-30	Sandy clay loam	SC	A-6, A-2	0-10	80-100	75-100	65-85	30-50	30-35	10-15
	30-60	Very gravelly loamy sand	GP, GP-GM	A-1	15-25	20-50	20-50	15-25	0-10	----	NP
Gaynor	0-6	Gravelly loam	CL-ML, GM-GC	A-4	5-15	65-80	60-75	50-70	40-60	20-25	5-10
	0-6	Silty clay loam, clay loam	CL	A-6	0	95-100	95-100	95-100	90-95	30-40	15-25
	0-6	Clay	CH, CL	A-7	0	95-100	95-100	95-100	70-90	40-60	20-40
	6-30	Silty clay loam, silty clay, clay	CL, CH	A-7	0	95-100	95-100	95-100	75-95	40-60	20-40
	30	Weathered bedrock	----	----	----	----	----	----	----	----	----
Glenton	0-8	Sandy loam, fine sandy loam	SM	A-2, A-4	0	95-100	90-100	60-70	30-40	15-25	NP-5
	0-8	Loam	ML	A-4	0	95-100	95-100	85-95	50-75	20-25	NP-5
	8-60	Stratified loamy sand, sandy clay loam	SM	A-2, A-4	0	85-100	75-100	60-70	30-50	20-25	NP-5
Griffy	0-4	Loam, sandy clay loam, clay loam	CL-ML, CL	A-4, A-6	0	75-100	75-95	65-80	50-75	20-35	5-15
	0-4	Gravelly loam, gravelly sandy clay loam	GM-GC, SM-SC	A-4	0	50-75	50-75	45-65	35-50	20-30	5-10
	0-4	Sandy loam, fine sandy loam	SM	A-2, A-4	0	80-100	80-100	60-70	30-40	15-20	NP-5
	4-15	Sandy clay loam, gravelly sandy clay loam, clay loam	CL _{GC} , SC	A-2, A-6	0	50-100	50-100	40-90	25-55	25-35	10-15
	15-60	Gravelly fine sandy loam, fine sandy loam, fine sandy loam	SM, GM	A-2, A-4	0	50-100	50-100	40-75	25-50	15-20	NP-5
	60-70	Sandy loam, loamy sand, fine sandy loam	SM	A-2	0	75-100	75-100	60-75	15-25	----	NP

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Hiland	0-2	Sandy loam	SM	A-2, A-4	0	95-100	90-100	65-75	30-40	20-25	NP-5
	0-2	Fine sandy loam	SC	A-2, A-6	0	95-100	90-100	65-85	30-45	30-35	10-15
	0-2	Sandy clay loam	SM	A-2	0	95-100	90-100	50-60	15-25	----	NP
	2-17	Loamy sand	SC, CL	A-6	0	95-100	90-100	60-80	40-60	30-40	10-20
	17-22	Sandy clay loam, sandy clay loam, fine sandy loam	SM-SC, SC	A-2, A-4 A-6	0	95-100	90-100	50-75	30-50	20-30	5-15
Keyner	22-60	Stratified fine sandy loam to sandy loam	SM	A-2, A-1	0	85-100	75-100	45-75	15-30	20-25	NP-5
	0-6	Loamy sand, fine sandy loam, sandy loam	SM	A-2	0	75-100	75-100	55-75	15-25	15-20	NP-5
	0-6	Loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-35	10-15
	6-11	Sandy clay loam, Sandy clay loam, clay loam, loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-40	10-20
	11-18	Sandy clay loam, clay loam, loam	CL	A-6	0	75-100	75-100	65-80	50-60	30-40	10-20
Kim	18-60	Fine sandy loam, sandy clay loam, loam	SM-SC, CL-ML	A-4	0	75-100	75-100	55-75	40-55	20-25	5-10
	0-6	Loam, sandy clay loam	ML, CL-ML SM-SC, SM	A-4	0-5	80-100	75-100	60-90	55-75	20-30	NP-10
	0-6	Fine sandy loam, sandy loam	SM, ML	A-4	0-5	80-100	75-100	55-90	35-55	15-25	NP-5
	0-6	Clay loam	CL	A-6	0-5	80-100	75-100	70-90	50-75	30-40	10-20
	6-60	Loam, clay loam, sandy clay loam	CL, CL-ML SC, SM-SC	A-4, A-6	0-5	80-100	75-100	50-95	35-35	20-40	5-15
Kinnear	0-10	Clay loam	CL	A-6	0-5	80-100	80-100	80-90	70-80	35-40	15-20
	0-10	Sandy clay loam	SM	A-4	0-5	80-100	80-100	75-85	35-50	30-40	15-10
	0-10	Fine sandy loam	SM, ML	A-4	0-5	80-100	75-100	60-90	35-70	20-25	NP-5
	10-60	Sandy clay loam, loam	SM, ML	A-4	0-5	80-100	80-100	70-80	40-60	30-40	5-10
Kishona	0-4	Loam, very fine sandy loam	ML	A-4	0	85-100	75-100	65-85	55-75	25-30	NP-5
	0-4	Clay loam, silty clay loam	CL	A-6	0	85-100	75-100	70-90	70-80	30-40	10-20
	0-4	Fine silty loam	SM	A-2	0	85-100	75-100	65-80	20-35	----	NP
	4-60	Loam, clay loam, silty clay loam	CL, ML, CL	A-4, A-6	0	85-100	75-100	70-90	65-85	20-30	5-15
	60-70	Silty loam	ML	A-4	0	85-100	75-100	65-75	65-75	30-35	5-10

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Las Animas	0-14	Fine sandy loam, very fine sandy loam, sandy loam, sandy loamy fine sand	SM, ML	A-4	0	100	95-100	70-90	40-60	20-25	NP-5
	0-14	Loamy sand, loamy fine sand	SM	A-2, A-4	0	95-100	90-100	60-75	20-40	----	NP
	0-14 14-42	Loam Stratified very fine sandy loam, loamy fine sand	CL-ML SM, ML	A-4 A-2, A-4	0 0	100 95-100	95-100 90-100	80-95 55-90	60-90 25-55	25-30 20-25	5-10 NP-5
	42-60	Fine sand	SM, SP-SM	A-2, A-3	0	100	95-100	75-100	5-25	----	NP
Lostwells	0-10	Sandy clay loam	SC, SM-SC	A-6, A-4	0-5	80-100	80-100	70-100	35-50	30-40	5-15
	0-10	Clay loam	CL, ML	A-6, A-7	0-5	80-100	80-100	70-90	60-80	35-45	10-20
	0-10	Loam	ML	A-4	0-5	80-100	80-100	70-90	50-75	30-35	5-10
	10-60	Stratified sandy loam to clay loam	SC, SM-SC	A-6, A-4	0-5	80-100	80-100	70-100	35-50	30-40	5-15
Meeteetse	0-3	Loam, sandy clay loam	CL, CL-ML	A-4, A-6	0	95-100	95-100	85-95	50-75	25-40	5-20
	0-3	Loamy sand	SM	A-2	0	95-100	95-100	85-95	25-35	----	NP
	0-3	Clay loam	CL, CL-ML	A-4, A-6	0	95-100	95-100	85-95	60-75	25-40	5-20
	3-18 18-60	Clay, clay loam Clay loam, sandy clay loam	CH, CL CL, CL-ML	A-7 A-4, A-6	0 0	95-100 80-100	95-100 75-100	90-100 85-95	75-95 55-75	45-60 25-40	25-35 5-20
Midway	0-3	Clay, silty clay	CL, CH	A-7	0	75-100	75-100	70-100	70-95	40-60	20-35
	0-3	Clay loam, silty clay loam	CL	A-6	0	75-100	75-100	70-100	70-95	30-40	10-20
	0-3	Gravelly clay loam	CL, GC	A-6	0-5	50-75	50-75	50-75	45-70	30-40	10-20
	3-12	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	95-100	95-100	90-100	70-95	35-50	15-25
Mudray	12	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-2	Sandy loam, loamy sand	SM	A-2	0	75-100	75-100	50-70	25-35	20-25	NP-5
	0-2	Sandy clay loam, clay loam, silty clay loam	CL	A-6	0	75-100	75-100	60-90	55-80	30-40	10-15
	2-12	Clay, sandy clay, silty clay	CL, CH	A-7	0	75-100	75-100	70-100	50-90	45-55	20-30
Muff or Muffler	12-15 15-17	Sandy clay loam, Clay loam, silty clay loam	SC CL	A-6 A-6	0 0	75-100 75-100	75-100 75-100	65-90 65-95	40-50 65-95	30-40 30-40	15-20 15-20
	17	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-5	Very fine sandy loam, loam	ML, CL-ML	A-4	0	95-100	90-100	85-95	50-70	20-30	NP-10
	0-5	Fine sandy loam	SM	A-4	0	90-100	75-100	70-85	35-50	20-25	NP-5
	5-19	Sandy clay loam, clay loam, loam	CL	A-6	0	90-100	75-100	70-90	60-75	30-40	15-20
	19-30 30	Sandy clay loam Unweathered bedrock	SC ----	A-6 ----	0 ----	90-100 ----	75-100 ----	65-90 ----	35-50 ----	30-35 ----	10-15 ----

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Oceanet	0-5	Sandy loam, fine sandy loam	SM	A-2, A-1	0-5	75-100	75-100	45-65	20-30	15-20	NP-5
	5-14	Fine sandy loam, sandy loam	SM, GM	A-1, A-2	0-5	55-80	50-75	35-55	20-35	15-20	NP-5
	14	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Olney Sandy Surface	0-8	Loamy sand	SM	A-2	0	95-100	90-100	60-90	10-20	----	NP
	8-16	Sandy clay loam, sandy loam	SC, CL	A-6	0	95-100	90-100	80-100	45-55	25-35	10-20
	16-22	Sandy loam, sandy clay loam, fine	SC, SM-SC CL, CL-ML	A-4, A-6	0	95-100	95-100	75-95	35-55	20-35	5-15
	22-60	Fine sandy loam, loamy fine sand, sandy loam	SM	A-2	0	95-100	95-100	70-95	20-35	20-25	NP-5
Otero	0-14	Sandy loam, fine sandy loam	SM	A-2	0-1	95-100	75-100	50-80	25-35	20-25	NP-5
	0-14	Loamy fine sand, loamy sand	SM	A-2	0-1	95-100	75-100	50-80	15-20	----	NP
	14-60	Sandy loam, fine sandy loam, loamy very fine sand	SM	A-2	0-1	90-100	75-100	40-60	20-35	15-25	NP-5
Pavillion	0-3	Sandy clay loam	SC	A-6	0-5	80-100	80-100	65-85	35-50	30-40	10-20
	3-32 32	Sandy clay loam Weathered bedrock	SC ----	A-6 ----	0-5 ----	80-100 ----	80-100 ----	65-85 ----	35-50 ----	30-40 ----	10-20 ----
Persayo	0-5	Loam	CL, CL-ML	A-4, A-6	0	100	100	85-95	60-75	25-35	5-15
	0-5	CNV-loam	GC, GM-GC	A-2	0	40-50	35-45	30-40	20-30	25-35	5-15
	0-5	Very cobbly clay loam	GC	A-6, A-7	30-35	55-65	50-60	45-55	35-45	35-45	15-25
	5-12	Loam, silty clay loam, clay loam	CL, CL-ML	A-4, A-6	0	95-100	95-100	85-100	70-90	25-35	5-15
	12	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Clay loam	CL	A-6	0	100	100	90-100	70-80	35-40	15-20
	4-28	Clay loam	CL	A-6	0	100	100	90-100	70-80	35-40	15-20
	28	Weathered bedrock	----	----	----	----	----	----	----	----	----

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Preatorson	0-2	Gravelly fine sandy loam, gravelly sandy loam	SM< GM	A-1, A-2	0-10	50-80	50-73	40-60	20-30	----	NP
	0-2	GPV-loam	GM-GC	A-2, A-4	0-10	40-60	35-55	30-30	20-40	20-30	5-10
	0-2	Cobbly loam	CL-ML	A-2	15-25	80-95	75-90	65-85	60-70	20-30	5-10
	2-11	Extremely gravelly sandy clay loam, extremely gravelly clay loam, extremely gravelly loam	GM-GC, GC	A-2	15-30	20-40	15-33	15-30	10-25	25-40	3-13
Sharland	11-20	Very gravelly sandy clay loam, very gravelly clay loam, very gravelly loam	GM-GC, GC	A-2, A-4 A-6	10-25	40-60	35-33	25-30	15-40	25-40	3-13
	20-60	Extremely gravelly sand, very gravelly loamy sand	GP, GP-GM	A-1	15-30	20-40	15-40	10-25	0-10	----	NP
	0-12	Sandy clay loam	SC	A-6	0-5	80-100	80-100	65-85	35-50	30-35	10-15
	0-12	Clay loam	CL	A-6	0-5	80-100	60-100	75-95	50-75	30-40	10-20
Shingle	0-12	Gravelly sandy clay loam, gravelly loam, gravelly clay loam, very gravelly sand, extra gravelly coarse sand	GC, SC, CL	A-2, A-6	0-5	55-75	55-75	50-65	25-60	30-40	10-20
	12-60	Very gravelly sand, extra gravelly coarse sand	GP	A-1	0-10	20-35	20-35	10-20	0-5	----	NP
	0-4	Loam, silty loam	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	NP-10
	0-4	Fine sandy loam, sandy loam	SM	A-4	0-5	75-100	75-100	70-85	35-50	20-25	NP-5
Shoshone	0-4	Clay loam, gravelly clay loam, silty clay loam	CL	A-6	0-5	75-100	70-100	65-100	50-85	35-40	15-20
	4-15	Clay loam, loam, silty clay loam	CL	A-6	0	75-100	75-100	65-100	50-85	30-40	15-20
	15	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Loam	CL-ML	A-4	0-5	80-100	80-100	65-85	60-70	20-30	5-10
Silvertip	0-4	Loamy sand	SM	A-2	0-5	80-100	80-100	50-65	20-30	----	NP
	0-4	Sandy loam	SM, SM-SC	A-2, A-4	0-5	80-100	80-100	50-75	25-30	20-30	NP-10
	4-30	Stratified gravelly loamy sand, loam	SM, SM-SC	A-2	0-5	80-100	75-95	50-70	20-30	15-25	NP-10
	30-60	Gravelly sand	GP, GP-GM SP, SP-SM	A-1	5-15	40-60	30-60	15-35	0-10	----	NP
Silvertip	0-4	Loam, fine sandy loam	ML	A-4	0	95-100	90-100	75-95	50-75	----	NP
	4-11	Loam	ML	A-4	0	95-100	90-100	80-95	60-75	20-30	5-10
	11-40	Loam, sandy clay loam, clay loam	ML, ML-CL	A-4, A-6	0	95-100	90-100	80-100	50-75	25-35	10-15
	40-60	Sandy clay loam, sandy loam, gravelly sandy loam	SM, SM-SC	A-4, A-6	0	75-100	50-95	45-90	30-50	15-40	0-20

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Spomer	0-3	Fine sandy loam, sandy loam	ML-CL, ML	A-4	0	80-100	75-95	80-90	50-70	20-25	5-10
	3-27	Loam, sandy clay loam, clay loam	CL	A-4, A-6	0	80-100	60-100	60-90	60-85	25-35	10-20
	27-53	Gravelly fine sandy loam, sandy loam	SM, SH-SC, SC	A-2-A-4	0-5	40-55	40-55	45-60	20-35	20-25	0-5
	53-66	Extra gravelly loamy sand, very gravelly sandy loam	GM-GM, GM	A-1a, A-3	0-25	5-25	5-20	5-20	5-15	----	NP
Stutzman	0-4	Silty clay loam, silty clay	CL, CH	A-7	0	75-100	75-100	75-100	70-95	40-55	20-30
	4-60	Silty clay loam, silty clay	CL, CH	A-7	0	75-100	75-100	75-100	70-95	40-55	20-30
Tassel	0-5	Loamy fine sand, loamy sand	SM	A-2	0	75-100	90-100	65-95	15-30	----	NP
	0-8	Fine sandy loam, loamy very fine sand, very fine sandy loam	ML, SM	A-4	0	95-100	90-100	75-100	40-65	<35	NP-7
	0-8	Fine sandy loam, loamy very fine sand, sandy loam	SM	A-4	0	95-100	90-100	65-75	40-50	----	NP
	8-15	Unweathered bedrock	----	----	----	----	----	----	----	<35	NP-7
Terry	15-60	Unweathered bedrock	----	----	----	----	----	----	----	----	----
	0-5	Fine sandy loam, sandy loam	SM, ML	A-2, A-4	0-5	75-100	75-100	70-90	30-60	----	NP
	0-5	Loamy sand, loamy fine sand	SM	A-2	0-5	75-100	75-100	60-85	25-35	----	NP
	5-14	Fine sandy loam, sandy loam	SM, ML	A-4	0	75-100	75-100	70-85	40-60	----	NP
Theda lund	14-26	Fine sandy loam, sandy loam, gravelly sandy loam	SM	A-2, A-4	0-5	70-100	65-100	45-85	25-50	----	NP
	26	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Loam, very fine sandy loam	SC, CL, CL-ML, SM-SC	A-4	0-5	80-100	75-100	60-90	40-60	25-30	5-10
	0-4	Clay loam, silty clay loam	CL	A-6	0-5	90-100	75-100	70-90	50-85	30-35	10-15
Torchlight	4-30	Clay loam, loam, sandy clay loam	CL-ML, CL, SM-SC	A-6, A-4	0-5	80-100	75-100	70-95	40-80	25-35	5-15
	30	Weathered bedrock	----	----	----	----	----	----	----	----	----
	0-4	Silty clay loam	CL, CH	A-7	0	100	100	95-100	85-95	45-55	20-30
	0-4	Clay, silty clay	CL, CH	A-7	0	100	100	90-100	80-95	45-55	20-30
	4-60	Silty clay loam, silty clay	CL, CH	A-7	0	100	100	95-100	85-95	45-55	20-30

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Uffens	0-1	Silty loam, loam	CL-ML	A-4	0	100	100	85-100	65-85	25-30	5-10
	0-1	Fine sandy loam, sandy loam	SM, ML	A-4	0	100	100	60-85	35-55	15-35	NP-5
	1-10	Sandy clay loam, clay loam, silty clay loam	SC, CL	A-6	0	100	100	80-100	40-85	30-40	10-20
	10-54	Sandy clay loam, silty clay loam, silty clay loam	SC, CL	A-6	0	100	100	80-100	40-85	30-40	10-20
Ulm	54-57	Silty clay	CL, CH	A-7	0	100	100	95-100	90-95	45-60	20-35
	57-70	Sand, loamy sand	SP-SM, SM	A-2, A-3	0	100	100	50-70	5-30	----	NP
	0-9	Loam	CL-ML	A-4	0-5	95-100	95-100	80-100	70-80	20-30	5-10
	0-9	Clay loam	CL	A-6	0-5	95-100	95-100	80-100	70-80	30-40	10-20
	9-26	Clay loam, clay	CL	A-6, A-7	0-5	75-100	75-100	75-100	60-80	35-45	20-30
	26-60	Clay loam, clay	CL	A-6	0-5	75-100	75-100	75-100	60-80	30-40	15-20
Vanda	60-70	Sandy clay loam, loam	CL, SC	A-6	0-5	75-100	75-100	70-100	40-55	30-40	10-20
	0-4	Clay, silty clay	CL, CH	A-7	0	100	100	95-100	75-95	40-65	20-45
	0-4	Silty clay loam	CL	A-7, A-6	0	100	100	95-100	85-100	35-50	15-25
	4-60	Clay, silty clay, silty clay loam	CL, CH	A-7, A-6	0	100	100	95-100	80-95	35-65	15-45
Wallson	0-4	Loamy sand, loamy fine sand	SM	A-2	0	75-100	75-100	50-75	15-30	----	NP
	0-4	Loamy sand	SM	A-2, A-4	0	75-100	75-100	50-75	30-40	----	NP
	4-15	Very cobbly clay	SM	A-2, A-4	0	75-100	75-100	50-75	30-45	20-25	NP-5
	15-60	Sandy loam, fine sandy loam	SM	A-2, A-4	0	75-100	75-100	50-75	30-45	----	NP
Willwood	60-70	Loamy sand	SM	A-2	0	75-100	75-100	40-60	10-20	----	NP
	0-5	Very cobbly loamy sand	SM	A-2	50-60	65-75	65-75	50-75	15-30	----	NP
	0-5	Gravelly sandy loam	SM, GM	A-2, A-1	0-5	50-75	50-75	40-60	15-30	20-25	NP-5
	0-5	Extremely gravelly loamy sand	GP-GM	A-1	0-15	25-35	20-30	15-20	5-10	----	NP
Willwood Variant	5-60	Very gravelly loamy sand, extremely gravelly loamy sand	GP-GM	A-1	30-45	25-45	25-40	15-30	5-10	----	NP
	0-30	Fine sandy loam	ML	A-4	----	95-100	90-100	65-80	40-55	NP	NP
	30-60	Sandy gravel	GW	A-1a	30-55	35-55	20-40	10-20	0-5	NP	NP
	0-6	Loam	CL-ML, CL	A-4, A-6	0	100	100	85-95	60-80	25-35	5-15
Winnett	0-6	Clay loam	CL	A-6, A-7	0	100	100	85-95	60-85	35-45	15-25
	0-6	Fine sandy loam	GM, ML	A-4	0	100	100	70-95	40-85	20-25	NP-5
	6-16	Clay, silty clay, clay loam	CL, CH	A-7	0	100	100	90-100	70-95	45-60	25-40
	16-30	Silty clay loam	CL	A-6, A-7	0	100	100	95-100	80-100	35-50	15-30
	30	Unweathered bedrock	----	----	----	----	----	----	----	----	----

Table B-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Horland	0-30 30	Sandy loam Unweathered bedrock	SM ----	A-2 ----	0 ---	75-100 ----	75-100 ----	50-65 ----	25-35 ----	NP ---	NP ---
Horland Variant	0-9 9-35 35	Sandy loam Sandy loam Unweathered bedrock	SM SM ----	A-2 A-2 ----	0 0 ---	100 100 ----	100 100 ----	60-90 60-95 ----	25-35 25-35 ----	NP NP ---	NP NP ---
Youngston	0-4 0-4 0-4 4-60	Clay loam Loam Silty clay loam Stratified very fine sandy loam to silty clay loam	CL CL-ML CL CL	A-6 A-4 A-6 A-6	0 0 0 0	100 100 100 100	100 100 100 100	90-100 70-80 90-100 80-100	70-80 55-65 80-90 60-80	30-40 20-30 30-40 30-40	10-20 5-10 10-20 10-20
Zigweid	0-6 0-6 0-6 6-60	Loam Clay loam Fine sandy loam Loam, clay loam	CL CL SM CL	A-6 A-6 A-2 A-6	0 0 0 0	75-100 75-100 75-100 75-100	75-100 75-100 75-100 75-100	70-85 70-85 60-80 70-85	60-70 60-70 25-35 60-70	25-35 35-40 ---- 25-40	10-15 15-20 NP 10-20

a = Source: Data from Soil Conservation Service series descriptions (Form 5). Data have not been compiled for soil units.

03/11/88

Table B-7. Engineering Properties of Washakie County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
2 Apron	0-3 3-60	Sandy loam Fine sandy loam, sandy loam.	SM SM	A-2, A-4 A-2, A-4	0 0	75-100 75-100	75-100 75-100	65-75 65-75	30-45 30-45	15-25 15-25	NP-5 NP-5
3, 4 Apron	0-3 3-60	Sandy loam Fine sandy loam, sandy loam.	SM SM	A-2, A-4 A-2, A-4	0 0	75-100 75-100	75-100 75-100	65-75 65-75	30-45 30-45	15-25 15-25	NP-5 NP-5
Worland	0-3 3-36 36	Sandy loam Sandy loam Unweathered bedrock	SM SM ---	A-2 A-2 ---	0 0 ---	75-100 75-100 ---	75-100 75-100 ---	50-65 50-65 ---	25-35 25-35 ---	----	NP NP ---
7 Baroid	0-7 7-60	Sandy loam Stratified loamy sand to fine sandy loam	SM SM	A-1, A-2 A-1, A-2	0-10 0-10	85-100 85-100	85-100 85-100	40-75 40-60	15-30 15-30	----	NP NP
8 Baroid	0-7 7-60	Sandy loam Stratified loamy sand to fine sandy loam	SM SM	A-1, A-2 A-1, A-2	0-10 0-10	85-100 85-100	85-100 85-100	40-75 40-60	15-30 15-30	----	NP NP
14 Clifterson	0-5 5-60	Gravelly sandy clay loam Very gravelly loam, very gravelly gray loam	GM-GC GM-GC	A-4 A-2	5-10 5-10	50-75 20-55	50-75 20-55	45-65 20-40	35-50 10-25	25-30 25-30	5-10 5-10
Persayo	0-13 13	Clay loam Unweathered bedrock	CL ---	A-6 ---	0-10 ---	80-100 ---	75-100 ---	75-95 ---	60-85 ---	25-40 ---	10-20 ---
Lostwells	0-3 3-60	Sandy clay loam Stratified sandy loam to clay loam	SC SC	A-6 A-6	0 0	80-100 80-100	80-100 80-100	70-100 70-100	35-50 35-50	30-40 30-40	10-15 10-15
16 Dobent	0-7 7-60	Loam Stratified sandy loam to silty clay loam	CL-ML, CL CL-ML, CL	A-4, A-6 A-4, A-6	0 0	100 100	100 100	85-95 85-95	60-80 60-80	20-40 20-40	5-15 5-15
18 Finnerty	0-9 9-60	Silty clay Silty clay, clay	CH, CL CH, CL	A-7 A-7	0 0	90-100 90-100	90-100 90-100	90-100 90-100	85-95 85-95	45-65 45-65	25-35 25-35

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

Table B-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
19 Fluvaquents											
20 Fluvents											
21 Forkwood	0-2 2-19 19-60	Very fine sandy loam Clay loam, loam Loam, clay loam	ML CL CL-ML, CL	A-4 A-6 A-4, A-6	0 0 0	75-100 75-100 75-100	75-100 75-100 75-100	70-90 70-90 70-90	55-70 55-75 55-75	20-25 20-35 20-35	NP-5 10-20 5-15
Haverdud	0-6 6-60	Loam Stratified fine sandy loam to silty clay loam	CL-ML CL-ML	A-4 A-4	0 0	75-100 75-100	75-100 75-100	70-90 70-90	50-70 50-60	20-25 20-25	5-10 5-10
Arvada	0-3 3-17 17-60	Loam Clay, silty clay loam, clay loam Clay loam, silty clay loam, clay	CL-ML CL, CH CL	A-4 A-7 A-7	0 0 0	90-100 80-100 80-100	90-100 75-100 75-100	85-95 70-100 70-100	60-75 65-95 55-80	15-25 40-65 40-45	5-10 20-35 20-25
22 Forkwood	0-2 2-19 19-60	Very fine sandy loam Clay loam, loam Loam, clay loam	ML CL CL-ML, CL	A-4 A-6 A-4, A-6	0 0 0	75-100 75-100 75-100	75-100 75-100 75-100	70-90 70-90 70-90	55-70 55-75 55-75	20-25 20-35 20-35	NP-5 10-20 5-15
Kishona	0-4 4-60	Loam Loam, clay loam, silty clay loam	ML CL-ML, CL	A-4 A-4, A-6	0 0	85-100 85-100	75-100 75-100	65-85 70-90	55-75 65-80	25-30 20-30	NP-5 5-15
Haverdud	0-6 6-60	Loam Stratified fine sandy loam to silty clay loam	CL-ML CL-ML	A-4 A-4	0 0	75-100 75-100	75-100 75-100	70-90 70-90	50-70 50-60	20-25 20-25	5-10 5-10
23 Fruita	0-4 4-24 24-60	Fine sandy loam Loam, clay loam Loam, fine sandy loam, sandy clay loam	SM, ML CL ML, SM, SC	A-4 A-6 A-4, A-6	0-5 0-5 0-5	90-100 90-100 90-95	80-100 90-100 90-95	60-90 75-90 75-85	35-65 55-70 40-70	----- 25-35 15-30	NP 10-15 NP-10
Neiber	0-8 8-21 21	Fine sandy loam Sandy clay loam Weathered bedrock	SM CL, SC, CL-ML, SM-SC ----	A-4 A-4, A-6 -----	0 0 -----	85-100 85-100 -----	85-100 85-100 -----	60-85 60-100 -----	35-50 40-65 -----	----- 25-40 -----	NP 5-15 -----

Table B-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments > 3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Muff	0-5 5-30 30	Fine sandy loam Sandy clay loam Weathered bedrock	SM SC ---	A-4 A-6 ---	0 0 ---	90-100 90-100 ---	75-100 75-100 ---	50-85 65-90 ---	35-50 30-50 ---	--- 30-40 ---	NP 15-20 ---
25 Glenton	0-7 7-60	Sandy loam Stratified fine sand to loam	SM SM	A-4 A-4	0-5 0-5	75-100 75-100	75-100 75-100	60-80 60-80	35-50 35-50	--- ---	NP NP
26 Glenton	0-7 7-60	Sandy loam Stratified fine sand to loam	SM SM	A-4 A-4	0-5 0-5	80-100 80-100	80-100 80-100	60-80 60-80	35-50 35-50	--- ---	NP NP
Baroid	0-7 7-60	Sandy loam Loamy fine sand, sandy loam	SM SM	A-2 A-2	0-10 0-10	90-100 90-100	85-100 85-100	55-80 55-80	15-30 15-30	--- ---	NP NP
29 Greybull	0-7 7-23 23	Clay loam Clay loam, loam, sandy clay loam Weathered bedrock	CL CL ---	A-6 A-6 ---	0 0 ---	100 100 ---	100 100 ---	90-100 90-100 ---	70-80 70-80 ---	35-40 35-40 ---	15-20 15-20 ---
Persayo	0-13 13	Clay loam Weathered bedrock	CL ---	A-6 ---	0-10 ---	80-100 ---	75-100 ---	75-95 ---	60-85 ---	25-40 ---	10-20 ---
30 Greybull	0-4 4-23 23	Clay loam Clay loam, loam, sandy clay loam Weathered bedrock	CL CL ---	A-6 A-6 ---	0 0 ---	100 100 ---	100 100 ---	90-100 90-100 ---	70-80 70-80 ---	35-40 35-40 ---	15-20 15-20 ---
Persayo	0-13 13	Clay loam Weathered bedrock	CL ---	A-6 ---	0-10 ---	80-100 ---	75-100 ---	75-95 ---	60-85 ---	25-40 ---	10-20 ---
31 Griffy	0-3 3-14 14-60	Sandy loam Sandy clay loam, gravelly sandy clay loam Sandy loam	SM GC, CL SM	A-2, A-4 A-2, A-4 A-6	0 0 0	80-100 50-100 75-90	80-100 50-100 75-90	60-70 40-90 55-80	30-40 25-55 35-50	--- 25-35 ---	NP 10-15 NP
32 Griffy	0-8 8-14 14-60	Clay loam Sandy clay loam, gravelly sandy clay loam Sandy loam	CL, ML GL, CL SM	A-4 A-2, A-6 A-4	0 0 0	75-100 50-100 75-90	75-100 50-100 75-90	65-80 40-90 55-80	50-75 25-55 35-50	20-30 25-35 ---	5-10 10-15 NP

Table B-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments > 3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
33 Hoot	0-5 5-16	Fine sandy loam Very channery sandy clay loam, very channery sandy loam	SM GC, GP-GC	A-4 A-2	0-10 10-30	75-90 10-50	75-90 10-50	60-75 10-40	35-50 5-30	---- 25-35	NP 10-20
	16	Unweathered bedrock	----	----	----	----	----	----	----	----	----
Rock outcrop											
Persayo	0-13 13	Clay loam Weathered bedrock	CL ----	A-6 ----	0-10 ----	80-100 ----	75-100 ----	75-95 ----	60-85 ----	25-40 ----	10-20 ----
34 Kishona	0-4 4-60	Loam Loam, clay loam, silty clay loam	ML CL-ML, CL	A-4 A-4, A-6	0 0	85-100 85-100	75-100 75-100	65-85 70-90	55-75 65-80	25-30 20-30	NP-5 5-15
Shingle	0-4 4-17 17	Clay loam Clay loam, loam Unweathered bedrock	CL CL ----	A-6 A-6 ----	0-5 0 ----	75-100 75-100 ----	70-100 75-100 ----	65-100 65-100 ----	50-80 50-80 ----	35-40 30-40 ----	15-20 10-20 ----
Rock outcrop											
35 Kishona	0-3 3-60	Clay loam Loam, clay loam, silty clay loam	CL CL-ML, CL	A-6 A-4, A-6	0 0	85-100 85-100	75-100 75-100	70-90 70-90	70-80 65-80	30-40 20-30	10-20 5-15
Shingle	0-4 4-17 17	Clay loam Clay loam, loam Unweathered bedrock	CL CL ----	A-6 A-6 ----	0-5 0 ----	75-100 75-100 ----	70-100 75-100 ----	65-100 65-100 ----	50-80 50-80 ----	35-40 30-40 ----	15-20 10-20 ----
40, 41 Lostwells	0-8 8-60	Clay loam Stratified sandy loam to clay loam	CL SC	A-6 A-6	0-5 0-5	80-100 80-100	80-100 80-100	75-100 70-100	60-75 35-50	35-40 30-40	15-20 10-15
42 Lostwells	0-3 3-60	Sandy clay loam Stratified sandy loam to clay loam	SC SC	A-6 A-6	0-5 0-5	80-100 80-100	80-100 80-100	70-100 70-100	35-50 35-50	30-40 30-40	10-15 10-15
Youngston	0-3 3-60	Silty clay loam Stratified very fine sandy loam to silty clay loam	CL CL	A-6 A-6	0 0	100 100	100 100	90-100 80-100	70-85 60-80	30-40 30-40	10-20 10-20

Table B-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Uffens	0-1 1-22 22-60	Loam Sandy clay loam, clay loam, silty clay loam Sandy clay loam, loam, clay loam to silty clay loam	CL, CL-ML CL CL	A-6, A-4 A-6 A-6	0 0 0	100 100 100	100 100 100	85-95 85-95 85-95	55-75 65-85 55-75	25-35 30-40 30-40	5-15 10-20 10-15
43 Lostwells	0-8 8-60	Clay loam Sandy clay loam	CL SC	A-6, A-7 A-6	0 0	95-100 95-100	95-100 95-100	85-100 75-90	60-75 35-50	35-45 30-40	15-20 10-15
Youngston	0-8 8-60	Silty clay loam Stratified loam to silty clay loam	CL CL	A-6 A-6	0 0	100 100	100 100	95-100 95-100	85-95 85-95	35-40 35-40	15-20 15-20
Lostwells	0-3 3-60	Sandy clay loam Stratified sandy loam to clay loam	SC SC	A-6 A-6	0-5 0-5	80-100 80-100	80-100 80-100	70-100 70-100	35-50 35-50	30-40 30-40	10-15 10-15
46 Muff	0-5 5-30 30	Fine sandy loam Sandy clay loam Weathered bedrock	SM SC ---	A-4 A-6 ---	0 0 ---	90-100 90-100 ---	75-100 75-100 ---	50-85 65-90 ---	35-50 30-50 ---	----- 30-40 ---	NP 15-20 ----
Neiber	0-8 8-21	Fine sandy loam Sandy clay loam	SM CL, SC, CL-ML, SM-SC ----	A-4 A-4, A-6 ---	0 0 ---	85-100 85-100 ---	85-100 85-100 ---	60-85 65-100 ---	35-50 40-65 ---	----- 25-40 ---	NP 5-15 ----
56 Persayo	0-13 13	Clay loam Weathered bedrock	CL ----	A-6 ----	0-10 ----	80-100 ----	75-100 ----	75-95 ----	60-85 ----	25-40 ----	10-20 ----
Muff	0-5 5-30 30	Fine sandy loam Sandy clay loam Weathered bedrock	SM SC ----	A-4 A-6 ----	0 0 ---	90-100 90-100 ---	75-100 75-100 ---	50-85 65-90 ---	35-50 30-50 ---	----- 30-40 ---	NP 15-20 ----
Rock outcrop											
57 Persayo	0-13 13	Clay loam Weathered bedrock	CL ----	A-6 ----	0-10 ---	80-100 ----	75-100 ----	75-95 ----	60-85 ----	25-40 ----	10-20 ----
Rock outcrop											
60 Riverwash											
61 Rock outcrop											

Table B-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments > 3/8 in (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Persayo	0-13 13	Clay loam Weathered bedrock	CL ----	A-6 ----	0-10 ----	80-100 ----	75-100 ----	75-95 ----	60-85 ----	25-40 ----	10-20 ----
⁶⁶ Stutzman	0-8 8-60	Silty clay loam Silty clay loam, silty clay	CL, CH CL, CH	A-7 A-7	0 0	75-100 75-100	75-100 75-100	75-100 75-100	70-95 70-95	40-55 40-55	20-30 20-30
⁶⁷ Stutzman	0-8 8-60	Silty clay loam Silty clay loam, silty clay	CL CL, CH	A-6, A-7 A-6, A-7	0 0	95-100 95-100	95-100 95-100	90-100 90-100	80-95 80-95	35-45 35-55	20-30 20-30
⁷⁰ Uffens	0-1 1-5 5-60	Loam Sandy clay loam, clay loam, silty clay loam Sandy clay loam, loam, clay loam	CL, CL-ML CL CL	A-6, A-4 A-6 A-6	0 0 0	100 100 100	100 100 100	85-95 85-95 85-95	55-75 65-85 55-75	25-35 30-40 30-40	5-15 10-20 10-15
Persayo	0-13 13	Clay loam Weathered bedrock	CL ----	A-6 ----	0-10 ----	80-100 ----	75-100 ----	75-95 ----	60-85 ----	25-40 ----	10-20 ----
Greybull	0-4 4-23 23	Clay loam Clay loam, loam, sandy clay loam Weathered bedrock	CL CL ----	A-6 A-6 ----	0 0 ----	100 100 ----	100 100 ----	90-100 90-100 ----	70-80 70-80 ----	35-40 35-40 ----	15-20 15-20 ----
⁷¹ Uffens	0-1 1-5 5-60	Loam Sandy clay loam, clay loam, silty clay loam Sandy clay loam, loam, clay loam	CL, CL-ML CL CL	A-6, A-4 A-6 A-6	0 0 0	100 100 100	100 100 100	85-95 85-95 85-95	55-75 65-85 55-75	25-35 30-40 30-40	5-15 10-20 10-15
Rairdent	0-2 2-17 17-60	Fine sandy loam Clay loam, gravelly clay loam Very gravelly loamy sand, very gravelly fine sandy loam	SM CL-ML, CL, GM-GC, GC GP-GM	A-2, A-4 A-4, A-6 ----	0-5 0-5 0-5	75-100 50-100 35-50	75-100 50-100 35-50	70-80 40-70 20-35	30-40 40-60 5-10	---- 20-35 ----	NP 5-15 NP

Table B-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments >3 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
Griffy	0-3 3-14 14-60	Clay loam Sandy clay loam, gravelly sandy clay loam Sandy loam	SM GC, CL SM	A-2, A-4 A-2, A-6 A-4	0 0 0	80-100 50-100 75-90	80-100 50-100 75-90	60-70 40-90 55-80	30-40 25-55 35-50	---- 25-35 ----	NP 10-15 NP
73 Wallson	0-4 4-60	Loamy fine sand Sandy loam, fine sandy loam	SM SM	A-2 A-2, A-4	0 0	75-100 75-100	75-100 75-100	50-75 50-75	15-30 30-45	---- ----	NP NP
74 Wallson	0-8 8-60	Sandy loam Sandy loam, fine sandy loam	SM SM	A-2, A-4 A-2, A-4	0 0	75-100 75-100	75-100 75-100	50-75 50-75	30-45 30-45	---- ----	NP NP
80 Worland	0-3 3-36 36	Sandy loam Sandy loam Unweathered bedrock	SM SM ----	A-2 A-2 ----	0 0 ----	75-100 75-100 ----	75-100 75-100 ----	50-65 50-65 ----	25-35 25-35 ----	---- ---- ----	NP NP ----
Persayo	0-13 13	Clay loam Unweathered bedrock	CL ----	A-6 ----	0-10 ----	80-100 ----	75-100 ----	75-95 ----	60-85 ----	25-40 ----	10-20 ----
Apron	0-60	Sandy loam	SM	A-2, A-4	0	75-100	75-100	65-75	30-45	15-25	NP-5
81 Youngston	0-9 9-60	Clay loam Stratified clay loam to sandy loam	CL, ML ML, CL, CL-ML	A-6 A-4,, A-	0-5 0-5	80-100 80-100	80-100 80-100	75-95 70-90	60-75 50-70	35-40 25-35	10-15 5-15
82 Youngston	0-9 9-60	Silty clay loam Stratified very fine sandy loam to silty clay loam	CL CL	A-6 A-6	0 0	100 100	100 100	90-100 80-100	70-85 60-80	30-40 30-40	10-20 10-20
83 Youngston	0-3 3-60	Silty clay loam Stratified very fine sandy loam to silty clay loam	CL CL	A-6 A-6	0 0	100 100	100 100	95-100 95-100	85-95 85-95	35-40 35-40	15-20 15-20
Glenton	0-3 3-60	Sandy loam Stratified fine sandy to very fine sandy loam	SM SM	A-4 A-4	0-5 0-5	75-100 75-100	75-100 75-100	60-80 60-80	35-50 35-50	---- ----	NP NP
Lostwells	0-4 4-60	Sandy clay loam Stratified sandy loam to clay loam	SC SC	A-6 A-6	0-5 0-5	80-100 80-100	80-100 80-100	70-100 70-100	35-50 35-50	30-40 30-40	10-15 10-15

Table B-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	USDA Texture	Unified	AASHTO	Fragments > 3/8 inc (Percent)	Percentage Passing Sieve Number				Liquid Limit (Percent)	Plasticity Index
						4	10	40	200		
84 Youngston	0-4	Silty clay loam Stratified very fine sandy loam to silty clay loam	CL	A-6	0	100	100	90-100	70-85	30-40	10-20
	4-60		CL	A-6	0	100	100	80-100	60-80	30-40	10-20
Uffens	0-1	Loam	CL, CL-ML	A-6, A-4	0	100	100	85-95	55-75	25-35	5-15
	1-5	Sandy clay loam, clay loam, silty clay loam	CL	A-6	0	100	100	85-95	65-85	30-40	10-20
	5-60	Sandy clay loam, loam, clay loam	CL	A-6	0	100	100	85-95	55-75	30-40	10-15
Lostwells	0-3 3-60	Sandy clay loam Stratified sandy loam to clay loam	SC	A-6 A-6	0-5 0-5	80-100 80-100	80-100 80-100	70-100 70-100	35-50 35-50	30-40 30-40	10-15 10-15

a = Source: Soil Survey of Washakie County, Wyoming.

Source: See Glossary, Table A, for a description of properties.

Appendix C. Physical and Chemical Properties of Soils

Appendix C. Physical and Chemical Properties of Soils.

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Table C. Glossary of Terms Used in Tables of Physical and Chemical Properties of Soils. (a)

Term	Definition
Clay:	Percentage by weight of the soil material that is less than 2 millimeters in diameter.
Permeability:	Rate of downward movement of water when the soil is saturated.
Available water capacity:	Capacity of the soil to hold water in inches of water per inch of soil.
Salinity:	A measure of soluble salts in the soil at saturation expressed as the electrical conductivity of the saturation extract in millimhos per centimeter at 25 degrees C.
Shrink-swell Potential:	Potential for volume change in a soil with a loss or gain in moisture. A moderate to very high rating can result in damage to structures.
Erosion factor K:	Susceptibility of a soil to sheet and rill erosion by water. Values range from 0.05 to 0.69 with the higher value indicating greater susceptibility to erosion.
Erosion factor T:	Estimate of the maximum average annual rate of soil erosion by wind or water that can occur without affecting crop productivity over a sustained period (tons per acre per year).
Wind erodibility group:	Soils are grouped according to properties affecting thier resistance to wind erosion in cultivated areas. Group 1 is extremely erodible and vegetation is difficult to establish. Group 8 soils are not subject to wind erosion.

a = Source: Soil Conservation Service. 1983. Soil Survey of Washakie County, Wyoming.

Table C-1. Physical and Chemical Properties of Carbon County, Montana, Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (ph)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Colby	0-4	15-27	0.6-2.0	0.20-0.24	7.4-8.4	---	Low	0.43	5	4L	.5-2
	0-4	27-30	0.6-2.0	0.20-0.24	7.4-8.4	---	Low	0.43	5	4L	.5-2
	0-4	5-15	0.6-2.0	0.20-0.22	7.4-8.4	---	Low	0.43	5	3	<1
	4-60	18-27	0.6-2.0	0.17-0.22	7.4-8.4	---	Low	0.43			
Haverson	0-6	10-27	0.6-2.0	0.14-0.18	7.4-8.4	<8	Low	0.24	5	4L	.5-2
	0-6	4-15	2.0-6.0	0.10-0.15	7.4-8.4	<8	Low	0.20	5	3	.5-2
	0-6	27-35	0.2-0.6	0.16-0.19	7.4-8.4	<8	Moderate	0.28	5	4L	.5-2
	6-60	18-35	0.6-2.0	0.14-0.18	7.4-9.0	<8	Low	0.24			
Heldt	0-6	30-40	<0.06-0.6	0.12-0.17	7.9-9.0	<8	High	0.37	5	4L	.5-2
	0-6	40-45	<0.06-0.2	0.12-0.17	7.9-9.0	<8	High	0.37	5	4	<1
Kyle	0-4	50-65	<0.06	0.08-0.12	6.6-7.8	<2	Very high	0.37	5	4	1-3
	4-24	60-65	<0.06	0.08-0.12	7.4-8.4	<4	Very high	0.37			
L ismas	24-60	60-65	<0.06	0.08-0.12	7.4-8.4	2-8	Very high	0.37			
L ismas	0-5	55-70	<0.06	0.08-0.12	6.1-7.8	<2	Very high	0.37	2	4	1-2
	5-9	55-70	<0.06	0.07-0.11	5.6-7.8	<4	Very high	0.37			
Midway	9-14	55-70	<0.06	0.04-0.08	5.6-7.8	<4	Very high	0.37			
	14-60	---	---	---	---	---	---	---			
Midway	0-3	40-60	<0.06-0.2	0.14-0.18	6.6-8.4	2-4	High	0.43	1	4	.5-2
	0-3	30-40	0.2-0.6	0.14-0.18	6.6-8.4	2-4	Moderate	0.43	1	4L	.5-2
Tonra	0-3	30-40	0.2-0.6	0.14-0.18	6.6-8.4	2-4	Moderate	0.28	1	6	.5-2
	3-12	35-45	<0.06-0.2	0.14-0.18	7.9-9.0	2-8	High	0.43			
Tonra	12	---	---	---	---	---	---	---			
Tonra	0-3	28-35	0.6-2.0	0.14-0.18	7.9-9.0	<2	Moderate	0.17	2	4L	.5-2
	0-3	28-35	0.6-2.0	0.16-0.20	7.9-9.0	<2	Moderate	0.32	2	4L	.5-2
Torchlight	3-11	28-35	0.6-2.0	0.12-0.16	7.9-9.0	<2	Moderate	0.17			
	11-23	28-35	0.6-2.0	0.14-0.18	7.9-9.0	<2	Moderate	0.32			
Torchlight	23-29	25-35	0.6-2.0	0.12-0.16	7.9-9.0	<2	Moderate	0.32			
	29-60	2-7	>20	0.01-0.04	7.9-9.0	<2	Low	0.05			
Torchlight	0-4	30-40	<0.06-0.2	0.08-0.10	>9.0	8-16	High	0.43	5	4L	.5-1
	0-4	40-50	<0.06-0.2	0.08-0.10	>9.0	8-16	High	0.32	5	4	.5-1
Travessilla	4-60	35-50	<0.06-0.2	0.08-0.10	>9.0	8-16	High	0.49			
Travessilla	0-4	5-15	2.0-6.0	0.11-0.13	6.6-8.4	---	Low	0.24	1	3	1-2
	0-4	10-18	0.6-2.0	0.16-0.18	6.6-8.4	---	Low	0.37	1	5	1-2
Travessilla	0-4	5-18	0.6-2.0	0.13-0.15	6.6-8.4	---	Low	0.20	1	5	1-2
	4-8	10-18	0.6-2.0	0.13-0.15	6.6-8.4	<2	Low	0.20			
Travessilla	8	---	---	---	---	---	---	---			

a = Source: Soil Survey of Carbon County Area, Montana.

Source: See Glossary, Table A, for a description of properties.

Table C-2. Physical and Chemical Properties of Fremont County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Fel1 Ryan Park	0-3	3-10	2.0-6.0	0.08-0.10	6.6-7.8	<2	Low	0.28	5	2	1-2
	3-17	10-18	2.0-6.0	0.08-0.11	7.9-9.0	<4	Low	0.28			
	17-60	5-14	2.0-6.0	0.11-0.13	6.6-7.8	<2	Low	0.24			
F2dl1 Bosler	0-6	10-20	2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.20	3	3	1-2
	6-21	18-30	0.6-2.0	0.14-0.16	6.6-7.8	<2	Moderate	0.32			
	20-60	0-5	6.0-20	0.02-0.04	7.9-9.0	<2	Low	0.05			
Ryan Park	0-3	3-10	2.0-6.0	0.10-0.12	6.6-7.8	<2	Low	0.28	5	3	1-2
	3-12	10-18	2.0-6.0	0.08-0.11	7.9-9.0	<4	Low	0.28			
	12-60	5-14	2.0-6.0	0.11-0.13	6.6-7.8	<2	Low	0.24			
F3dl1 Bosler	0-3	10-20	2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.20	3	3	1-2
	3-31	18-30	0.6-2.0	0.14-0.16	6.6-7.8	<2	Moderate	0.32			
	31-60	0-5	6.0-20	0.02-0.04	7.9-9.0	<2	Low	0.05			
Rock River	0-3	10-18	2.0-6.0	0.11-0.13	6.6-7.3	----	Low	0.20	5	3	.5-2
	3-13	20-30	0.6-2.0	0.14-0.16	6.6-7.8	----	Low	0.17			
	13-60	5-25	2.0-6.0	0.11-0.13	7.9-9.0	2-4	Low	0.24			
F2gl1 Emblem	0-2	5-15	2.0-6.0	0.10-0.13	7.4-8.4	----	Low	0.28	3	5	<1
	2-20	20-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	0.47			
	20-60	0-10	>6.0	0.03-0.05	7.9-8.4	<4	Low	0.02			
Cliffsand	0-6	10-20	0.6-2.0	0.10-0.12	7.4-8.4	<2	Low	0.15	5	8	.5-1
	6-60	5-18	2.0-6.0	0.07-0.09	7.9-9.0	<4	Low	0.15			
Raident	0-2	10-25	0.6-2.0	0.16-0.18	7.4-8.4	2-4	Low	0.32	5	4L	.5-1
	2-7	10-25	0.6-2.0	0.12-0.17	7.4-8.4	2-8	Low	0.20			
	7-60	3-7	6.0-20	0.02-0.04	7.4-8.4	2-8	Low	0.05			
F2nl1 Cliffsand	0-7	10-20	0.6-2.0	0.13-0.15	7.4-8.4	<2	Low	0.20	5	6	.5-1
	7-60	5-18	2.0-6.0	0.07-0.09	7.9-9.0	<4	Low	0.15			
Persayo	0-2	20-27	0.2-0.6	0.17-0.19	7.9-9.0	<8	Low	0.37	1	8	.5-1
	2-15	20-35	0.2-0.6	0.17-0.19	7.9-9.0	<8	Moderate	0.37			
	15	----	----	----	----	----	----	----			
F2a32 Dahlquist	0-3	12-25	2.0-6.0	0.06-0.10	6.6-7.8	<2	Low	0.05	5	8	1-3
	3-60	20-35	0.6-2.0	0.06-0.11	6.6-7.8	<2	Low	0.02			
Rock River	0-4	10-18	2.0-6.0	0.11-0.13	6.6-7.3	----	Low	0.20	5	3	.5-2
	4-21	20-30	0.6-2.0	0.14-0.16	6.6-7.8	----	Low	0.17			
	21-60	5-25	2.0-6.0	0.11-0.13	7.9-9.0	2-4	Low	0.24			

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHUS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
F2f72 Pesmore	0-3 3-12 12-24 24	15-20 10-18 10-18 ----	2.0-6.0 0.6-2.0 0.6-2.0 ----	0.06-0.07 0.06-0.10 0.06-0.10 ----	6.6-7.8 6.6-8.4 7.9-8.4 ----	<2 <2 <2 ----	Low Low Low ----	0.10 0.15 0.15 ----	2	8	2-5
Rock outcrop											
Asholler	0-3 3-17 17	10-25 18-27 ----	0.6-2.0 0.6-2.0 ----	0.11-0.15 0.07-0.11 ----	6.1-7.3 6.6-7.3 ----	<2 <2 ----	Low Low ----	0.17 0.10 ----	1	8	1-2
F2h72 Pensore	0-3 3-11 11	10-25 10-25 ----	0.6-2.0 0.6-2.0 ----	0.08-0.09 0.07-0.08 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ----	0.10 0.10 ----	1	4L	1-3
Rock outcrop											
F2j72 Rallod	0-2 2-18 18	10-20 35-50 ----	0.6-2.0 0.06-0.2 ----	0.15-0.17 0.10-0.12 ----	7.4-7.8 >8.4 ----	<2 4-8 ----	Low High ----	0.43 0.28 ----	1	6	1-3
Rock outcrop											
Seaverson	0-3 3-18 18	18-35 18-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 >8.4 ----	2-8 4-16 ----	Moderate Moderate ----	0.49 0.49 ----	2	6	1-2
F90 Zeomont	0-7 7-60	3-10 0-5	6.0-20 6.0-20	0.06-0.08 0.05-0.07	7.4-8.4 7.4-7.8	<2 <2	Low Low	0.15 0.15	5	2	1-2
F101 Badland											
Seaverson	0-2 2-10 10	18-35 18-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 >8.4 ----	2-8 4-16 ----	Moderate Moderate ----	0.49 0.49 ----	2	6	1-2
Blazon	0-2 2-19 19	27-35 27-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ----	0.37 0.43 ----	2	6	.5-1
F102 Badland											
Birdsley	0-4 4-14 14	22-30 22-35 ----	<0.06 <0.06 ----	0.07-0.09 0.07-0.09 ----	>8.4 >9.0 ----	<4 <8 ----	Moderate Moderate ----	0.32 0.43 ----	1	5	<.5

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (ph)	Shrink Swell Potential (MMHOS/CW)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
F105 Rock outcrop											
Blazon	0-2 2-17 17	27-35 27-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ----	0.37 0.43 ----	2	6	.5-1
F107 Rock outcrop											
Blackhall	0-2 2-12 12	10-20 5-18 ----	0.6-2.0 0.6-2.0 ----	0.15-0.18 0.12-0.14 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ----	0.32 0.28 ----	2	5	1-2
F201 Havre	0-4 4-60	15-27 18-35	0.6-2.0 0.6-2.0	0.16-0.20 0.14-0.18	6.1-8.4 7.4-9.0	<2 <4	Low Low	0.37 0.28	5	5	.5-2
Forelle	0-5 5-19 19-60	15-27 20-35 5-15	0.6-2.0 0.6-2.0 2.0-6.0	0.16-0.18 0.16-0.21 0.11-0.14	6.6-9.0 6.6-9.0 7.9-9.0	<2 <2 <2	Low Moderate Low	0.32 0.37 0.32	5	5	.5-1
Glendive	0-4	10-27	0.6-2.0	0.16-0.20	6.6-9.0	<4	Low	0.32	5	5	.5-2
F203 Venapass	0-3 3-30 30-60	18-27 18-27 5-15	0.6-2.0 0.6-2.0 6.0-20	0.16-0.18 0.16-0.18 0.05-0.08	6.6-7.3 7.4-7.8 7.4-7.8	<2 <2 <2	Low Moderate Low	0.32 0.27 0.10	5	5	2-5
Silas	0-16 16-60	15-25 18-35	0.6-2.0 0.6-2.0	0.14-0.16 0.14-0.16	6.6-8.4 6.6-8.4	----- <2	Low Low	0.32 0.32	5	6	1-3
F205 Iceslew	0-2 2-32 32-60	12-20 12-20 18-30	0.6-2.0 0.6-2.0 0.6-2.0	0.15-0.17 0.16-0.18 0.12-0.20	7.4-9.0 7.4-9.0 7.4-9.0	2-8 2-8 <4	Low Low Moderate	0.37 0.32 0.32	5	3	2-5
Countryman	0-2 2-21 21-60	10-20 5-18 5-18	0.6-2.0 0.6-2.0 0.6-2.0	0.16-0.18 0.15-0.17 0.11-0.15	7.4-8.4 7.4-8.4 7.4-8.4	4-8 2-8 2-8	Low Low Low	0.37 0.34 0.37	5	5	2-4
F206 Youngston	0-4 4-60	27-35 18-30	0.2-0.6 0.2-0.6	0.19-0.21 0.19-0.21	7.4-8.4 7.9-9.0	<2 2-8	Moderate Moderate	0.37 0.37	5	6	<1
Lostwells	0-21 21-60	20-27 20-30	0.6-2.0 0.6-2.0	0.17-0.19 0.13-0.16	7.4-8.4 7.9-9.0	<2 <4	Low Moderate	0.37 0.32	5	5	<1
F206F Youngston	0-6 6-60	18-27 20-30	0.6-2.0 0.2-0.6	0.19-0.21 0.19-0.21	7.9-8.4 7.9-9.0	<2 2-8	Moderate Moderate	0.49 0.37	5	6	<.5

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Lostwells	0-5 5-60	20-27 20-30	0.6-2.0 0.6-2.0	0.17-0.19 0.13-0.16	7.4-8.4 7.9-9.0	<2 <4	Low Moderate	0.37 0.32	5	5	<1
Apron	0-4 4-60	5-18 5-18	2.0-6.0 2.0-6.0	0.11-0.13 0.11-0.13	7.4-9.0 7.9-9.0	<2 <2	Low Low	0.20 0.20	5	3	5-1
F209 Havre	0-3 3-60	15-27 18-35	0.6-2.0 0.6-2.0	0.16-0.20 0.14-0.18	6.1-8.4 7.4-9.0	<2 <4	Low Low	0.37 0.28	5	5	.5-2
Absber	0-3 3-24 24-60	15-27 35-60 30-40	0.6-2.0 <0.06 0.06-0.2	0.14-0.16 0.12-0.14 0.08-0.10	7.9-8.4 >7.8 >7.8	<8 <8 <16	Moderate High Moderate	0.49 0.37 0.43	5	5	1-2
Forelle	0-8 8-32 32-60	15-27 20-35 5-15	0.6-2.0 0.6-2.0 2.0-6.0	0.16-0.18 0.16-0.21 0.11-0.14	6.6-9.0 6.6-9.0 7.9-9.0	<2 <2 <2	Low Moderate Low	0.32 0.37 0.32	5	5	.5-1
F217 Sandbranch	0-2 2-17 17-34 34-60	10-20 20-35 20-35 18-27	0.6-2.0 0.2-0.6 0.2-0.6 0.2-0.6	0.12-0.14 0.11-0.15 0.11-0.15 0.15-0.19	7.9-9.0 >8.4 >7.8 >7.8	<4 2-8 >4 >4	Low Moderate Moderate Low	0.32 0.37 0.37 0.37	5	6	<1
Ryan Park Variant	0-6 6-23 23 48-55 55	5-12 10-18 10-18 10-18 -----	2.0-6.0 2.0-6.0 2.0-6.0 2.0-6.0 -----	0.08-0.10 0.13-0.15 0.13-0.15 0.03-0.05 -----	7.4-7.8 7.4-7.8 7.9-8.4 >90 -----	<2 <2 <2 <8 -----	Low Low Low Low -----	0.32 0.37 0.37 0.37 -----	5	3	1-2
Poposhia	0-10 10-60	20-27 20-35	0.6-2.0 0.6-2.0	0.17-0.20 0.17-0.20	7.4-8.4 7.9-8.4	<2 <4	Moderate Moderate	0.37 -----	5	5	1-2
F218 Griffy	0-6 6-13 13-60	5-15 25-35 0-10	2.0-6.0 0.6-2.0 2.0-6.0	0.11-0.13 0.14-0.16 0.07-0.12	7.4-7.8 7.4-8.4 7.9-9.0	----- <2 <4	Low Moderate Low	0.28 0.20 0.24	5	3	.5-1
Saddle	0-2 2-13 13-33 33 30	10-15 20-35 12-20 5-15 -----	2.0-6.0 0.6-2.0 0.6-2.0 2.0-6.0 -----	0.11-0.13 0.14-0.16 0.12-0.14 0.11-0.13 -----	6.6-7.8 6.6-7.8 7.9-9.0 7.9-9.0 -----	<2 <2 <4 <4 -----	Low Moderate Low Low -----	0.24 0.24 0.28 0.28 -----	3	3	<1
Wallson	0-4 4-60	5-10 10-18	6.0 2.0-6.0	0.06-0.11 0.11-0.14	6.6-7.3 6.6-9.0	<2 2-4	Low Low	0.17 0.28	5	2	.3-.5
F227 Brownsto	0-8 8-24 24-60	20-30 15-25 15-25	0.6-2.0 0.6-2.0 0.6-2.0	0.06-0.09 0.04-0.07 0.04-0.07	7.4-8.4 7.9-9.0 7.9-9.0	<2 <2 <2	Moderate Low Low	0.15 0.02 0.02	5	8	1-2

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Decross Variant	0-2 2-14 14-60	15-20 20-25 20-25	2.0-6.0 0.6-2.0 0.6-2.0	0.11-0.13 0.14-0.16 0.14-0.16	7.9-8.4 7.9-9.0 7.9-9.0	<2 <4 <4	Low Moderate Moderate	0.28 0.37 0.37	5	3	2-4
Brownsto	0-4 4-22 22-60	8-18 20-30 10-25	2.0-6.0 0.6-2.0 2.0-6.0	0.11-0.13 0.16-0.18 0.06-0.08	7.4-8.4 7.4-9.0 7.9-9.0	<2 <2 <4	Low Low Low	0.28 0.32 0.11	5	3	1-2
F230 Thermopolis	0-2 2-10 10	18-27 18-35 ----	0.6-2.0 0.6-2.0 -----	0.15-0.18 0.15-0.18 -----	7.4-8.4 7.4-8.4 -----	<4 <4 ----	Low Moderate -----	0.43 0.55 -----	2	5	1-2
Sinkson	0-14 14-60	15-25 18-35	0.6-2.0 0.6-2.0	0.16-0.18 0.16-0.18	7.9-8.4 7.9-8.4	<4 <4	Low Moderate	0.43 0.55	5	5	1-2
F231 Crango	0-3 3-60	15-27 18-30	0.6-2.0 2.0-6.0	0.10-0.12 0.03-0.04	7.4-8.4 7.4-8.4	<2 <2	Low Low	0.20 0.10	3	4L	1-3
Pensore	0-13 13	10-25 ----	0.6-2.0 -----	0.12-0.14 -----	7.9-8.4 -----	<2 ----	Low -----	0.20 -----	1	4L	1-3
F234 Sinkson	0-4 4-60	15-25 20-30	0.6-2.0 0.6-2.0	0.16-0.18 0.14-0.16	7.9-8.4 7.9-8.4	<4 <4	Low Moderate	0.43 0.37	5	5	1-2
Almy	0-10 10-60	20-25 20-35	0.6-2.0 0.6-2.0	0.17-0.19 0.19-0.21	7.4-8.4 7.9-9.0	<4 <8	Low Moderate	0.32 0.37	5	4	1-3
Thermopolis	0-3 3-16 16	18-27 18-35 ----	0.6-2.0 0.6-2.0 -----	0.15-0.18 0.15-0.18 -----	7.4-8.4 7.4-8.4 -----	<4 <4 ----	Low Moderate -----	0.43 0.55 -----	2	5	1-2
F237 Uffens	0-4 4-40 40-60	15-20 20-30 0-5	0.2-0.6 0.2-0.6 6.0-20	0.15-0.17 0.15-0.17 0.02-0.04	>8.4 >8.4 >8.4	>8 >8 >16	Low Moderate Low	0.49 0.24 0.10	1	4L	.5-1
Muff	0-2 2-20 20-29 29	10-20 20-35 20-30 ----	0.6-2.0 0.06-0.2 0.2-0.6 -----	0.15-0.17 0.04-0.16 0.12-0.14 -----	7.4-8.4 >8.4 >8.4 -----	2-4 4-8 >4 ----	Low Moderate Moderate -----	0.32 0.37 0.32 -----	3	3	<1
Frisite	0-6 6-42 42-60	10-20 28-33 28-33	2.0-6.0 0.6-2.0 0.6-2.0	0.15-0.17 0.17-0.20 0.17-0.20	7.9-8.4 7.9-8.4 7.9-9.0	<2 <2 2-4	Low Moderate Moderate	0.28 0.32 0.37	5	5	<1
F242 Apron	0-4 4-60	5-18 5-18	2.0-6.0 2.0-6.0	0.11-0.13 0.11-0.13	7.4-9.0 7.9-9.0	<2 <2	Low Low	0.20 0.20	5	3	5-1

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erod- ibility Group	Organic Matter (Percent)
								K	T		
Lostwells	0-5 5-60	20-27 20-30	0.6-2.0 0.6-2.0	0.17-0.19 0.13-0.16	7.4-8.4 7.9-9.0	<2 <4	Low Moderate	0.37 0.32	5	5	<1
F248 Frisite	0-3 3-16 16-60	10-20 28-33 22-33	2.0-6.0 0.6-2.0 0.6-2.0	0.12-0.14 0.17-0.20 0.15-0.20	7.9-8.4 7.9-8.4 7.9-9.0	<2 <2 2-4	Low Moderate Moderate	0.28 0.32 0.32	5	3	<1
Youngston	0-4 4-60	15-25 18-30	0.6-2.0 0.2-0.6	0.16-0.18 0.19-0.21	7.4-8.4 7.9-9.0	<2 2-8	Low Moderate	0.32 0.37	5	5	<1
F267 Almy	0-2 2-60 60-70	20-25 20-35 5-15	0.6-2.0 0.6-2.0 2.0-6.0	0.17-0.19 0.19-0.21 0.06-0.09	7.4-8.4 7.9-9.0 7.9-9.0	<4 <8 <8	Low Moderate Low	0.32 0.37 0.17	5	4	1-3
Monbutte	0-4 4-23 23-60	10-15 35-60 22-30	2.0-6.0 0.06-0.2 0.2-0.6	0.10-0.12 0.12-0.15 0.12-0.15	7.9-8.4 >8.4 >9.0	2-8 2-8 4-8	Low High Moderate	0.32 0.37 0.37	5	3	1-2
Rallod	0-4 4-7 7-15 15-18 18	10-20 20-27 35-50 20-30 ----	0.6-2.0 0.6-2.0 0.06-0.2 0.6-2.0 ----	0.15-0.17 0.12-0.14 0.10-0.12 0.11-0.13 ----	7.4-7.8 >8.4 >8.4 >8.4 ----	<2 4-8 4-8 4-8 ----	Low Moderate High Moderate ----	0.43 0.37 0.28 0.37 ----	1	6	1-3
F270 Poposhia	0-3 3-10 10-60	20-27 20-35 20-35	0.6-2.0 0.6-2.0 0.6-2.0	0.17-0.20 0.17-0.20 0.17-0.20	7.4-8.4 7.4-8.4 7.9-8.4	<2 <2 <4	Moderate Moderate Moderate	0.37 0.28 ----	5	5	1-2
Blazon	0-4 4-17 17	27-35 27-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ----	0.37 0.43 ----	3	6	.5-1
Carmody	0-8 8-16 16-25 25	10-20 10-18 10-18 ----	0.6-2.0 0.6-2.0 0.6-2.0 ----	0.14-0.16 0.14-0.16 0.16-0.18 ----	7.9-8.4 7.9-8.4 7.9-8.4 ----	<2 <2 <2 ----	Low Low Low ----	0.37 0.43 0.43 ----	3	3	1-2
F271 Persayo	0-3 3-16 16	27-35 20-35 ----	0.2-0.6 0.2-0.6 ----	0.15-0.17 0.17-0.19 ----	7.9-9.0 7.9-9.0 ----	<8 <8 ----	Moderate Moderate ----	0.37 0.37 ----	1	8	.5-1
Rock outcrop F272 Blackhall	0-2 2-17 17	10-20 5-18 ----	0.6-2.0 0.6-2.0 ----	0.15-0.18 0.12-0.14 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ----	0.32 0.28 ----	2	5	1-2

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Carmody	0-4 4-24 24	10-20 10-18 ----	0.6-2.0 0.6-2.0 ----	0.14-0.16 0.14-0.16 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ----	0.37 0.43 ----	3	3	1-2
F277 Diamondville	0-2 2-13 13-24 28	15-25 22-35 10-25 ----	0.6-2.0 0.2-0.6 0.6-2.0 ----	0.16-0.18 0.16-0.18 0.16-0.18 ----	6.6-7.8 7.4-8.4 7.9-8.4 ----	<2 <2 <2 ----	Low Moderate Low ----	0.37 0.49 0.49 ----	5	6	1-2
Forelle	0-6 6-22 22-60	15-27 20-35 20-30	0.6-2.0 0.6-2.0 0.6-2.0	0.16-0.18 0.16-0.21 0.16-0.18	6.6-9.0 6.6-9.0 7.9-9.0	<2 <2 <2	Low Moderate Low	0.32 0.37 0.37	5	5	.5-1
F291 Cushool	0-3 3-23 23-35 35	8-15 20-35 8-15 ----	2.0-6.0 0.6-2.0 2.0-6.0 ----	0.13-0.15 0.14-0.16 0.12-0.14 ----	7.4-8.4 7.4-9.0 7.9-9.0 ----	<2 <2 <4 ----	Low Moderate Low ----	0.32 0.15 0.37 ----	3	3	1-2
Rock River	0-3 3-34 34-60	10-18 20-30 5-25	2.0-6.0 0.6-2.0 2.0-6.0	0.11-0.13 0.14-0.16 0.11-0.13	6.6-7.3 6.6-7.8 7.9-9.0	----- ----- 2-4	Low Low Low	0.20 0.17 0.24	5	3	.5-2
F293 Cragosen	0-4 4-19 19	10-18 10-18 ----	0.6-2.0 0.6-2.0 ----	0.14-0.16 0.06-0.08 ----	7.4-9.0 7.4-9.0 ----	<2 <2 ----	Low Low ----	0.20 0.10 ----	1	8	1-2
Rock outcrop											
F294 Forelle	0-2 2-16 16-24 24-60	15-27 20-35 20-30 5-15	0.6-2.0 0.6-2.0 0.6-2.0 2.0-6.0	0.16-0.18 0.16-0.21 0.16-0.18 0.11-0.14	6.6-9.0 6.6-9.0 7.9-9.0 7.9-9.0	<2 <2 <4 <4	Low Moderate Low Low	0.32 0.37 0.37 0.32	5	5	.5-1
Poposhia	0-3 3-15 15-60	27-35 20-35 20-35	2.0-6.0 0.6-2.0 0.6-2.0	0.11-0.13 0.17-0.20 0.17-0.20	7.4-8.4 7.4-8.4 7.9-8.4	<2 <2 <4	Low Moderate Moderate	0.28 0.28 ----	5	3	1-2
F297 Birdsley	0-2 2-13 13	22-30 22-35 ----	<0.06 <0.06 ----	0.07-0.09 0.07-0.09 ----	>8.4 >9.0 ----	<4 <8 ----	Moderate Moderate ----	0.32 0.43 ----	1	5	<.5
Mudray	0-2 2-12 12-19 19	5-15 40-50 27-35 ----	2.0-6.0 0.06-0.2 0.2-0.6 ----	0.11-0.13 0.14-0.16 0.14-0.16 ----	>7.8 >9.0 >7.8 ----	<4 <4 <4 ----	Low High Moderate ----	0.32 0.43 0.37 ----	1	3	<1

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CW)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
F298 Blazon	0-2 2-19 19	27-35 27-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ----	0.37 0.43 ----	2	6	.5-1
Rock outcrop											
Carmody	0-5 5-20 20	5-15 10-18 ----	2.0-6.0 0.6-2.0 ----	0.06-0.09 0.14-0.16 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ----	0.15 0.43 ----	3	8	1-2
F301 Binton	0-3 3-60 30	27-35 18-35 ----	0.06-0.2 0.06-0.2 ----	0.15-0.17 0.10-0.14 ----	>8.4 >8.4 ----	2-8 2-8 ----	Moderate Moderate ----	0.32 0.32 ----	5	6	<1
Youngston	0-2 2-60 20	27-35 18-30 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.4-8.4 7.9-9.0 ----	<2 2-8 ----	Moderate Moderate ----	0.37 0.37 ----	5	6	<1
F306 Youngston	0-3 3-60 30	15-25 18-30 ----	0.6-2.0 0.2-0.6 ----	0.16-0.18 0.19-0.21 ----	7.4-8.4 7.9-9.0 ----	>2 2-8 ----	Low Moderate ----	0.32 0.37 ----	5	5	<1
Effington	0-4 4-25 25-60	20-35 35-50 15-35	0.2-0.6 0.06-0.2 0.2-0.6	0.09-0.11 0.07-0.09 0.09-0.11	>8.4 >9.0 >8.4	>8 >8 >8	Moderate High Low	0.37 0.32 0.49	5	6	<1
F309 Havre	0-2 2-60 20	15-27 18-35 ----	0.6-2.0 0.6-2.0 ----	0.16-0.20 0.14-0.18 ----	6.1-8.4 7.4-9.0 ----	<2 <4 ----	Low Low ----	0.37 0.28 ----	5	5	.5-2
Havre Variant	0-8 8-60 60	3-10 18-30 ----	6.0-20.0 0.6-2.0 ----	0.05-0.07 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	8-16 2-8 ----	Low Moderate ----	0.10 0.24 ----	5	1	1-2
Elko1	0-2 2-60 20	40-45 35-45 ----	0.06-0.2 0.06-0.2 ----	0.08-0.10 0.08-0.10 ----	>8.4 >8.4 ----	<16 <16 ----	High High ----	0.32 0.37 ----	5	4	<1
F311 Ryan Park	0-5 5-27 27-60	3-10 10-18 0-10	2.0-6.0 2.0-6.0 2.0-6.0	0.10-0.12 0.08-0.11 0.07-0.14	6.6-7.8 7.9-9.0 7.9-9.0	<2 <4 <4	Low Low Low	0.28 0.28 0.32	5	3	1-2
Carmody	0-5 5-38 38	10-20 10-18 ----	0.6-2.0 0.6-2.0 ----	0.14-0.16 0.14-0.16 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ----	0.37 0.43 ----	3	3	1-2
F340 Tisworth	0-13 13-27 27-60	3-9 18-35 5-20	6.0-20 0.06-0.2 0.6-2.0	0.5-0.7 0.07-0.11 0.07-0.10	>7.8 >8.4 >8.4	<2 2-8 <4	Low Moderate Low	0.20 0.49 0.32	5	2	1-2
Ryan Park	0-4 4-60 60	3-10 10-18 ----	2.0-6.0 2.0-6.0 ----	0.10-0.12 0.08-0.11 ----	6.6-7.8 7.9-9.0 ----	<2 <4 ----	Low Low ----	0.28 0.28 ----	5	3	1-2

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Countryman	0-2 2-60	5-15 5-18	2.0-6.0 0.6-2.0	0.13-0.15 0.11-0.15	7.4-8.4 7.4-8.4	4-8 2-8	Low Low	0.32 0.37	5	3	2-4
F342 Apron	0-8 8-60	0-10 5-18	2.0-6.0 2.0-6.0	0.06-0.08 0.11-0.13	7.4-9.0 7.9-9.0	<2 <2	Low Low	0.20 0.20	5	2	.5-1
Wallson	0-8 8-60	5-12 10-18	2.0-6.0 2.0-6.0	0.11-0.14 0.11-0.14	6.6-7.3 6.6-9.0	<2 2-4	Low Low	0.28 0.28	5	3	.5-.8
Worland	0-5 5-25 25	4-12 10-18 ----	2.0-6.0 2.0-6.0 ----	0.06-0.08 0.06-0.08 ----	7.4-8.4 7.4-9.0 ----	<2 <2 ----	Low Low ---	0.17 0.28 ---	3	2	<1
F348 Frisite	0-3 3-23 23-60	10-20 28-33 22-33	2.0-6.0 0.6-2.0 0.6-2.0	0.15-0.17 0.17-0.20 0.15-0.20	7.9-8.4 7.9-8.4 7.9-9.0	<2 <2 2-4	Low Moderate Moderate	0.28 0.32 0.32	5	5	<1
Emblem	0-3 3-21 21-60	20-27 20-27 0-10	0.6-2.0 0.6-2.0 >6.0	0.16-0.18 0.16-0.18 0.03-0.05	7.4-8.4 7.4-8.4 7.9-8.4	---- >2 <4	Low Low Low	0.37 0.47 0.02	3	6	<1
F372 Cragosen	0-6 6-12 12	10-18 5-10 ----	0.6-2.0 2.0-6.0 ----	0.14-0.16 0.04-0.06 ----	7.4-9.0 7.4-9.0 ----	<2 <2 ----	Low Low ---	0.20 0.10 ----	1	8	1-2
Carmody	0-1 1-22 22	5-15 10-18 ----	2.0-6.0 0.6-2.0 ----	0.06-0.09 0.14-0.16 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ---	0.15 0.43 ----	3	8	1-2
Blazon	0-3 3-15 15	27-35 27-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ---	0.37 0.43 ----	2	6	.5-1
F375 Worland	0-3 3-34 34	10-18 10-18 ----	2.0-6.0 2.0-6.0 ----	0.11-0.13 0.06-0.08 ----	7.4-8.4 7.4-9.0 ----	<2 <2 ----	Low Low ---	0.24 0.28 ----	3	3	<1
Oceanet	0-8 8-19 19	5-15 5-15 ----	2.0-6.0 2.0-6.0 ----	0.11-0.14 0.09-0.11 ----	7.9-9.0 7.9-9.0 ----	<2 <2 ----	Low Low ---	0.32 0.20 ----	1	3	.5-1
Persayo	0-6 6-18 18	27-35 20-35 ----	0.2-0.6 0.2-0.6 ----	0.15-0.17 0.17-0.19 ----	7.9-9.0 7.9-9.0 ----	<8 <8 ----	Moderate Moderate ---	0.37 0.37 ----	1	8	.5-1
F393 Blackhall	0-2 2-11 11	5-15 5-18 ----	0.6-2.0 0.6-2.0 ----	0.13-0.15 0.12-0.14 ----	7.9-8.4 7.9-8.4 ----	<2 <2 ----	Low Low ---	0.32 0.28 ----	2	3	1-2

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Rock outcrop											
F406 Youngston	0-4 4-60	15-25 18-30	0.6-2.0 0.2-0.6	0.16-0.18 0.19-0.21	7.4-8.4 7.9-9.0	<2 2-8	Low Moderate	0.32 0.37	5	5	<1
Persayo	0-2 2-10 10	20-27 20-35 ----	0.2-0.6 0.2-0.6 ----	0.17-0.19 0.17-0.19 ----	7.9-9.0 7.9-9.0 ----	<8 <8 ----	Low Moderate ----	0.37 0.37 ----	1	8	.5-1
F409 Absher	0-1 1-40 40-60	20-27 35-60 35-50	0.2-0.6 <0.06 <0.06	0.12-0.16 0.08-0.10 0.05-0.06	6.6-8.4 6.6-8.4 >7.8	4-8 8-16 >16	Low High High	0.49 0.37 0.43	5	5	1-2
Elko1	0-2 2-54 54-60	35-40 35-45 12-20	0.06-0.2 0.06-0.2 0.6-2.0	0.08-0.10 0.08-0.10 0.11-0.13	>8.4 >8.4 >8.4	<16 <16 <16	Moderate High Low	0.32 0.37 0.43	5	4	<1
F469 Absher	0-4 4-9 9-60	20-27 35-60 35-50	0.2-0.6 <0.06 <0.06	0.12-0.16 0.08-0.10 0.05-0.06	6.6-8.4 6.6-8.4 >7.8	4-8 8-16 >16	Low High High	0.49 0.37 0.43	5	5	1-2
Poposhia	0-4 4-14 14-60	20-27 20-35 20-35	0.6-2.0 0.6-2.0 0.6-2.0	0.17-0.20 0.17-0.20 0.17-0.20	7.4-8.4 7.4-8.4 7.9-8.4	<2 <2 <2	Moderate Moderate Moderate	0.37 0.28 ----	5	5	1-2
Sinkson	0-9 9-28 28-60	20-30 20-30 18-27	0.6-2.0 0.6-2.0 0.6-2.0	0.14-0.16 0.14-0.16 0.14-0.16	7.9-8.4 7.9-8.4 7.9-8.4	<4 <4 <4	Moderate Moderate Low	0.37 0.37 0.20	5	5	1-2
F493 Cragosen	0-6 6-10 10	10-18 10-18 ----	0.6-2.0 0.6-2.0 ----	0.14-0.16 0.06-0.08 ----	7.4-9.0 7.4-9.0 ----	<2 <2 ----	Low Low ----	0.20 0.10 ----	1	8	1-2
Bosler	0-2 2-22 22-60	10-20 18-30 0-5	2.0-6.0 0.6-2.0 6.0-20	0.13-0.15 0.14-0.16 0.02-0.04	6.6-7.8 6.6-7.8 7.9-9.0	<2 <2 <2	Low Moderate Low	0.20 0.32 0.05	3	3	1-2
Cushool (Satanka)	0-3 3-23 23-36 36	8-15 20-35 8-15 ----	2.0-6.0 0.6-2.0 2.0-6.0 ----	0.13-0.15 0.14-0.16 0.12-0.14 ----	7.4-8.4 7.4-9.0 7.9-9.0 ----	<2 <2 <4 ----	Low Moderate Low ----	0.32 0.15 0.37 ----	3	3	1-2
F507 Quander	0-3 3-60	15-25 20-30	0.6-2.0 0.6-2.0	0.16-0.18 0.08-0.12	6.1-7.3 6.1-7.3	<2 <2	Low Low	0.15 0.10	5	8	2-4
Yauga	0-7 7-28 28-60	15-27 20-35 20-35	0.6-2.0 0.6-2.0 0.6-2.0	0.06-0.18 0.12-0.18 0.13-0.15	6.1-7.8 6.1-7.8 6.1-7.8	<2 <2 <2	Low Moderate Moderate	0.24 0.20 0.20	5	5	2-5

Table C-2. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Onason	0-11 11	8-18 ----	2.0-6.0 ----	0.11-0.13 ----	6.6-7.8 ----	<2 ----	Low ----	0.24 ----	1	3	.5-1
F607 Youga	0-14 14-60	15-27 20-35	0.6-2.0 0.6-2.0	0.06-0.18 0.12-0.18	6.1-7.8 6.1-7.8	<2 <2	Low Moderate	0.24 0.20	5	5	2-5
Quander	0-3 3-43	15-25 20-30	0.6-2.0 0.6-2.0	0.16-0.18 0.08-0.12	6.1-7.3 6.1-7.3	<2 <2	Low Low	0.15 0.10	5	8	2-4
F672 Bluerim	0-3 3-12 12-36 36	5-15 20-27 5-15 ----	2.0-6.0 0.6-2.0 2.0-6.0 ----	0.11-0.13 0.14-0.16 0.11-0.13 ----	6.6-7.8 6.6-7.8 7.9-9.0 ----	<2 <2 <4 ----	Low Low Low ----	0.15 0.24 0.20 ----	3	3	.5-1
Onason	0-2 2-17 17	8-18 8-18 ----	2.0-6.0 2.0-6.0 ----	0.07-0.09 0.07-0.11 ----	6.6-7.8 6.6-7.8 ----	<2 <2 <2	Low Low ----	0.10 0.10 ----	1	3	.5-1
F700,70 Burnette	0-2 2-8 8-60	15-25 15-27 10-18	0.6-2.0 0.6-2.0 0.6-2.0	0.12-0.15 0.10-0.12 0.09-0.11	6.6-7.8 6.6-7.8 7.9-9.0	<2 <2 <2	Low Low Low	0.20 0.15 0.10	3	5	3-5
F995, 584 Ryark	0-5 5-27 27-60	3-8 12-18 1-4	2.0-6.0 2.0-6.0 >6.0	0.09-0.12 0.11-0.13 0.04-0.06	6.6-7.8 6.6-7.8 6.6-7.8	<2 <2 <2	Low Low Low	0.28 0.24 0.05	3	3	.5-1
FMS	DUMPS, MINE										

a = Source: Data from draft Fremont County, Eastern Part Soil Survey.

Source: See Glossary, Table A, for a description of properties.

Table C-3. Physical and Chemical Properties of Hot Springs County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
HS47 Petrie	0-4 4-60	27-40 35-59	.06-0.2 <.06	.19-.21 .14-.21	>8.0 >8.0	2-4 4-8	High High	.49 .49	5	4	
Cadoma	0-4 4-34	20-27 35-60	0.2-0.6 .06-0.2	.14-.16 .08-.10	>7.8 >7.8	>4 >16	Moderate High	.37 .37	3	4L	
Epsie	0-3 3-16 16-28	40-60 50-60 50-60	<.06 <.06 <.06	.08-.12 .08-.12 .08-.12	7.4-8.4 7.9-8.9 7.9-8.9	>4 >4 >4	High High High	.32 .32 .32	3	4	
HS67 Cadoma	0-4 4-34	20-27 35-60	0.2-0.6 .06-0.2	.14-.16 .08-.10	>7.8 >7.8	>4 >16	Moderate High	.37 .37	3	4L	
Arvada	0-4 4-14 14-60	10-20 35-60 30-40	2.0-6.0 <.06 .06-0.2	.13-.15 .07-.09 .09-.11	7.4-9.0 >8.4 >8.4	>4 >4 <8	Low High High	.24 .32 .32	5	3	
Worfka	0-2 2-19	25-40 30-50	0.2-0.6 .06-0.2	.17-.21 .19-.21	6.6-8.4 7.4-9.0	<2 <2	Moderate Moderate	.32 .37	2	6	
HS68 Cadoma	0-4 4-34	20-27 35-60	0.2-0.6 .06-0.2	.14-.16 .08-.10	>7.8 >7.8	>4 >16	Moderate High	.37 .37	3	4L	
Epsie	0-3 3-16 16-28	40-60 50-60 50-60	<.06 <.06 <.06	.08-.12 .08-.12 .08-.12	7.4-8.4 7.9-8.9 7.9-8.9	>4 >4 >4	High High High	.32 .32 .32	3	4	
HS71 Cadoma	0-4 4-34	20-27 35-60	0.2-0.6 .06-0.2	.14-.16 .08-.10	>7.8 >7.8	>4 >16	Moderate High	.37 .37	3	4L	
Shingle	0-4 4-15	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.21	7.4-9.0 7.4-9.0	<2 <2	Low Moderate	.32 .32	2	4L	
HS72 Absted	0-3 3-60	15-30 35-50	2.0-6.0 .06-0.2	.15-.17 .11-.13	6.6-7.8 >7.9	2-4 >16	Moderate High	.52 .55	4	4L	
Arvada	0-4 4-14 14-60	10-20 35-60 30-40	2.0-6.0 <.06 .06-0.2	.13-.15 .07-.09 .09-.11	7.4-9.0 >8.4 >8.4	>4 >4 <8	Low High High	.24 .32 .32	5	3	
HS73 Absted	0-3 3-60	15-30 35-50	2.0-6.0 .06-0.2	.15-.17 .11-.13	6.6-7.8 >7.9	2-4 >16	Moderate High	.52 .55	4	4L	
Stoneham	0-4 4-9 9-40 40-60	15-30 25-40 18-35 10-20	0.6-2.0 0.6-2.0 0.6-2.0 2.0-6.0	.16-.18 .14-.18 .14-.18 .08-.12	6.6-7.8 7.4-8.4 7.9-8.4 7.9-8.4	<2 <2	Low Moderate Moderate Low	.20 .20 .20 .17	5	4L	

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodi- bility Group	Organic Matter (Percent)
								K	T		
Ulm	0-9 9-26 26-60	15-35 35-50 20-40	0.6-2.0 .06-0.2 0.6-2.0	.16-.18 .19-.21 .19-.21	6.6-7.3 7.4-8.4 7.9-8.9	<2 <2	Low High Moderate	.32 .37 .37	5	6	
HS75 Arvada	0-4 4-14	10-20 35-60	2.0-6.0 <.06	.13-.15 .07-.09	7.4-9.0 >8.4	>4 >4	Low High	.24 .32	5	3	
Kim alkali	0-4 4-16 16-60	18-35 18-35 18-35	0.6-2.0 0.6-2.0 0.6-2.0	.16-.18 .16-.18 .15-.17	7.9-9.0 8.5-9.0 7.9-9.0	4-8 4-8 4-16	Moderate Moderate Moderate	.32 .32 .32	5	4L	
HS91C Neville (b)	0-10 0-10 10-60	10-20 15-25 18-35	2.0-6.0 0.6-2.0 0.6-2.0	0.13-0.15 0.15-0.18 0.15-0.18	7.4-8.4 7.4-8.4 7.9-8.4	- - -	Low Low Low	.20 .24 .24	5 5	3 4L	.5-1 .5-1
HS102 Rock Outcrop											
HS110 Shingle	0-4 4-15	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.21	7.4-9.0 7.4-9.0	<2 <2	Low Moderate	.32 .32	2	4L	
Tassel	0-15	5-18	2.0-6.0	.16-.18	7.4-8.4		Low	.24	1	3	
HS111 Rock Outcrop											
Shingle	0-4 4-15	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.21	7.4-9.0 7.4-9.0	<2 <2	Low Moderate	.32 .32	2	4L	
Tassel	0-15	5-18	2.0-6.0	.16-.18	7.4-8.4		Low	.24	1	3	
HS190 Epsie	0-3 3-16 16-28	40-60 50-60 50-60	<.06 <.06 <.06	.08-.12 .08-.12 .08-.12	7.4-8.4 7.9-8.9 7.9-8.9	>4 >4 >4	High High High	.32 .32 .32	3	4	
Shingle	0-4 4-15	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.21	7.4-9.0 7.4-9.0	<2 <2	Low Moderate	.32 .32	2	4L	
HS243 Kim	0-6 6-60	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .15-.17	7.9-8.4 7.9-8.9	<8	Low Moderate	.32 .32	5	4L	
Kim alkali	0-4 4-16 16-60	18-35 18-35 18-35	0.6-2.0 0.6-2.0 0.6-2.0	.16-.18 .16-.18 .15-.17	7.9-9.0 8.5-9.0 7.9-9.0	4-8 4-8 4-16	Moderate Moderate Moderate	.32 .32 .32	5	4L	
HS244 Kim	0-6 6-60	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .15-.17	7.9-8.4 7.9-8.9	<8	Low Moderate	.32 .32	5	4L	

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Kim alkali	0-4 4-16 16-60	18-35 18-35 18-35	0.6-2.0 0.6-2.0 0.6-2.0	.16-.18 .16-.18 .15-.17	7.9-9.0 8.5-9.0 7.9-9.0	4-8 4-8 4-16	Moderate Moderate Moderate	.32 .32 .32	5	4L	
HS246 Orella	0-3 3-18	38-65 38-65	.06-0.2 <.06	.09-.11 .09-.11	7.9-9.0 8.5-9.5		High High	.49 .49	1	4	
Epsie	0-3 3-16 16-28	40-60 50-60 50-60	<.06 <.06 <.06	.08-.12 .08-.12 .08-.12	7.4-8.4 7.9-8.9 7.9-8.9	>4 >4 >4	High High High	.32 .32 .32	3	4	
Rock Outcrop											
HS247 Torriorthents, severely eroded											
HS315 Persayo	0-14	18-35	0.2-6.0	.15-.19	7.9-9.0	<8	Moderate	.37	1	4L	
Clifterson	0-4 4-60	18-35 10-35	2.0-6.0 6.0-2.0	.09-.13 .04-.09	7.9-8.4 7.9-8.4	<2 <2	Low Low	.28 .24	5	4L	
HS322 Nihill	0-8 8-60	10-30 10-30	0.6-2.0 2.0-6.0	.12-.16 .07-.09	7.4-7.8 7.4-8.4	<4	Low Low	.24 .20	2	5	
Shingle	0-4 4-15	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.21	7.4-9.0 7.4-9.0	<2 <2	Low Moderate	.32 .32	2	4L	
HS324 Larimer loam	0-7 7-22 22-30 30-60	10-27 15-35 15-25 0-5	2.0-6.0 0.6-2.0 2.0-6.0 <20.	.13-.15 .16-.18 .11-.13 .03-.05	6.6-7.9 6.6-8.4 7.9-9.0 7.9-8.4		Low Moderate Low Low	.24 .32 .17 .10	3	6	1-3
Nihill	0-8 8-60	10-30 10-30	0.6-2.0 2.0-6.0	.12-.16 .07-.09	7.4-7.8 7.4-8.4	<4	Low Low	.24 .20	2	5	
HS325 Larimer loam	0-7 7-22 22-30 30-60	10-27 15-35 15-25 0-5	2.0-6.0 0.6-2.0 2.0-6.0 <20.	.13-.15 .16-.18 .11-.13 .03-.05	6.6-7.9 6.6-8.4 7.9-9.0 7.9-8.4		Low Moderate Low Low	.24 .32 .17 .10	3	6	1-3
Stoneham	0-4 4-9 9-40 40-60	15-30 25-40 18-35 10-20	0.6-2.0 0.6-2.0 0.6-2.0 2.0-6.0	.16-.18 .14-.18 .14-.18 .08-.12	6.6-7.8 7.4-8.4 7.9-8.4 7.9-8.4	<2 <2	Low Moderate Moderate Low	.20 .20 .20 .17	5	4L	

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Nihill	0-8 8-60	10-30 10-30	0.6-2.0 2.0-6.0	.12-.16 .07-.09	7.4-7.8 7.4-8.4	<4	Low Low	.24 .20	2 2	5 5	
HS345 Vona	0-8 8-30 30-60	5-15 8-18 5-15	2.0-6.0 2.0-6.0 6.0-20.	.11-.13 .12-.14 .08-.11	6.6-7.8 6.6-8.4 7.9-9.0	<2 <4 <4	Low Low Low	.15 .20 .15	5	3	
Otero	0-14 14-60	5-18 5-18	6.0-20. 6.0-20.	.09-.13 .08-.12	7.0-8.4 7.4-8.4	<2 <4	Low Low	.10 .10	5	2	
HS360 Stoneham	0-4 4-9 9-40 40-60	15-30 25-40 18-35 10-20	0.6-2.0 0.6-2.0 0.6-2.0 2.0-6.0	.16-.18 .14-.18 .14-.18 .08-.12	6.6-7.8 7.4-8.4 7.9-8.4 7.9-8.4	<2 <2	Low Moderate Moderate Low	.20 .20 .20 .17	5	4L	
Kim	0-6 6-60	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .15-.17	7.9-8.4 7.9-8.9	<8	Low Moderate	.32 .32	5	4L	
HS371 Pavilion	0-11 11-26	15-30 18-35	0.6-2.0 0.6-2.0	.15-.17 .16-.18	7.4-9.0 7.4-9.0	2-4 2-4	Low Moderate	.24 .30	3	4L	
Persayo	0-14	18-35	0.2-0.6	.15-.19	7.9-9.0	<8	Moderate	.37	1	4L	
HS372 Tassel	0-15	5-18	2.0-6.0	.16-.18	7.4-8.4		Low	.24	1	3	
Nelson	0-9 9-30	5-18 5-18	2.0-6.0 2.0-6.0	.13-.15 .11-.13	7.9-8.4 7.9-8.4	<2 <2	Low Low	.20 .20	2	3	
HS375 Bowbac	0-3 3-14 14-30	5-18 18-35 18-35	2.0-6.0 0.6-2.0 0.6-2.0	.13-.15 .16-.18 .16-.18	6.6-7.4 6.6-7.4 7.4-8.4	<2 <2 <2	Low Moderate Moderate	.26 .32 .32	3	3	
Olney	0-8 8-16 16-22 22-60	10-20 18-35 15-30 5-20	0.6-6.0 0.6-2.0 0.6-6.0 2.0-6.0	.11-.15 .13-.15 .11-.15 .06-.13	6.6-7.8 6.6-7.8 7.9-9.0 7.9-9.0	<2 <2 <2	Low Moderate Low Low	.20 .24 .24 .15	5	3	
Arvada	0-4 4-14	10-20 35-60	2.0-6.0 <.06	.13-.15 .07-.09	7.4-9.0 >8.4	>4 >4	Low High	.24 .32	5	3	
HS382 Rock Outcrop											
Tassel	0-15	5-18	2.0-6.0	.16-.18	7.4-8.4		Low	.24	1	3	
HS383 Rock Outcrop											

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Tassel	0-15	5-18	2.0-6.0	.16-.18	7.4-8.4		Low	.24	1	3	
Nelson	0-9 9-30	5-18 5-18	2.0-6.0 2.0-6.0	.13-.15 .11-.13	7.9-8.4 7.9-8.4	<2 <2	Low Low	.20 .20	2	3	
HS389 Spearfish	0-8 8-16	18-35 18-35	0.6-2.0 0.6-2.0	.16-.22 .15-.20	6.6-8.4 7.4-8.4		Low Low	.32 .32	1	4L	
Neville	0-10 10-60	10-20 18-35	0.6-2.0 0.6-2.0	.13-.18 .15-.18	7.4-8.4 7.9-8.4		Low Low	.28 .37	5	3	
HS393 Olney	0-8 8-16 16-22 22-60	10-20 18-35 15-30 5-20	0.6-6.0 0.6-2.0 0.6-6.0 2.0-6.0	.11-.15 .13-.15 .11-.15 .06-.13	6.6-7.8 6.6-7.8 7.9-8.4 7.9-9.0	<2 <2	Low Moderate Low	.20 .24 .24 .15	5	3	
Bowbac	0-3 3-14 14-30	5-18 18-35 18-35	2.0-6.0 0.6-2.0 0.6-2.0	.13-.15 .16-.18 .16-.18	6.6-7.4 6.6-7.4 7.4-8.4	<2 <2 <2	Low Moderate Moderate	.26 .32 .32	3	3	
HS398 Tassel	0-15	5-18	2.0-6.0	.16-.18	7.4-8.4		Low	.24	1	3	
Bowbac	0-3 3-14 14-30	5-18 18-35 18-35	2.0-6.0 0.6-2.0 0.6-2.0	.13-.15 .16-.18 .16-.18	6.6-7.4 6.6-7.4 7.4-8.4	<2 <2 <2	Low Moderate Moderate	.26 .32 .32	3	3	
Terry	0-5 5-14 14-26		2.0-6.0 2.0-6.0 2.0-6.0	.13-.15 .13-.15 .13-.15	7.0-7.8 7.4-7.8 7.9-8.4		Low Low Low	.20 .20 .20	2	3	
HS410 Bondman	0-3 3-12 12-18	10-20 20-30 10-20	2.0-6.0 2.0-6.0 2.0-6.0	.13-.15 .14-.16 .11-.13	6.6-7.8 7.4-7.8 7.4-7.8	<2 <2 <2	Low Moderate Low	.20 .24 .20	1	3	
Worfka	0-2 2-19	25-40 30-50	0.2-0.6 .06-0.2	.17-.21 .19-.21	6.6-8.4 7.4-9.0	<2 <2	Moderate Moderate	.32 .37	2	6	
Worf	0-14		0.6-2.0	.16-.18	6.6-8.4	<2	Moderate	.28	2	6	
HS411 Bondman	0-3 3-12 12-18	10-20 20-30 10-20	2.0-6.0 2.0-6.0 2.0-6.0	.13-.15 .14-.16 .11-.13	6.6-7.8 7.4-7.8 7.4-7.8	<2 <2 <2	Low Moderate Low	.20 .24 .20	1	3	
Rock Outcrop Worf	0-14		0.6-2.0	.16-.18	6.6-8.4	<2	Moderate	.28	2	6	

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
HS426 Larim	0-4	10-20	0.6-2.0	.13-.15	6.6-7.4	<2	Low	.24	2	5	
	4-15	25-35	0.6-2.0	.12-.14	6.6-9.0	<2	Moderate	.24			
	15-60	0-10	20.	.03-.05	7.9-9.0	<2	Low	.10			
Larimer	0-7	10-27	2.0-6.0	.13-.15	6.6-7.9		Low	.24	3	6	1-3
	7-22	15-35	0.6-2.0	.16-.18	6.6-8.4		Moderate	.32			
	22-30	15-25	2.0-6.0	.11-.13	7.9-9.0	<2	Low	.17			
	30-60	0-5	>20.	.03-.05	7.9-8.4	<2	Low	.10			
HS447 Travessilla	0-8	5-18	0.6-2.0	.09-.17	7.4-8.9	<2	Low	.32	1	4L	
HS448 Torrifluvents Saline											
HS450 Torrifluvents Fluvaquents											
HS490 Shingle	0-4	18-35	0.6-2.0	.16-.18	7.4-9.0	<2	Low	.32	2	4L	
	4-15	18-35	0.6-2.0	.16-.21	7.4-9.0	<2	Moderate	.32			
Theda lund	0-4	15-30	0.6-2.0	.16-.18	7.9-8.4	<8	Low	.32	2	4L	
	4-30	18-35	0.6-2.0	.16-.18	7.9-8.4		Moderate	.32			
HS572 Worland	0-30		2.0-6.0	.11-.13	7.9-8.4	2-4	Low	.20	3	3	
Oceanet	0-14	5-18	2.0-6.0	.07-.13	7.4-9.0	<2	Low	.24	1	3	
HS601 Youngston	0-4	18-35	0.6-2.0	.19-.21	7.4-8.4	<2	Moderate	.37	5	4L	
	4-60	18-35	0.6-2.0	.19-.21	7.9-9.0	2-8	Moderate	.37			
Uffens	0-3	15-25	0.2-0.6	.13-.15	>8.4	>16	Low	.49	1	4L	
	3-60	18-35	0.2-0.6	.14-.16	>8.4	>16	Moderate	.24			
Glenton	0-10	18-35	0.6-2.0	.19-.21	7.4-9.0	<4	Moderate	.32	5	4L	
	10-60	18-35	0.6-2.0	.11-.16	7.9-9.0	<4	Moderate	.32			
HS602 Binton	0-60	18-35	.06-0.2	.10-.14	>8.5	2-8	Moderate	.32	5	4L	
Uffens	0-3	15-25	0.2-0.6	.13-.15	>8.4	>16	Low	.49	1	4L	
	3-60	18-35	0.2-0.6	.14-.16	>8.4	>16	Moderate	.24			
HS604 Effington	0-3	25-40	0.2-0.6	.09-.11	>8.4	>8	Moderate	.37	5	4L	
	3-19	35-55	.06-0.2	.07-.09	>9.0	>8	High	.32			
	19-60	25-40	0.2-0.6	.09-.11	>8.4	>8	Moderate	.49			

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodi- bility Group	Organic Matter (Percent)
								K	T		
HS426 Larim	0-4 4-15 15-60	10-20 25-35 0-10	0.6-2.0 0.6-2.0 20.	.13-.15 .12-.14 .03-.05	6.6-7.4 6.6-9.0 7.9-9.0	<2 <2 <2	Low Moderate Low	.24 .24 .10	2	5	
Larimer	0-7 7-22 22-30 30-60	10-27 15-35 15-25 0-5	2.0-6.0 0.6-2.0 2.0-6.0 >20.	.13-.15 .16-.18 .11-.13 .03-.05	6.6-7.9 6.6-8.4 7.9-9.0 7.9-8.4	<2 <2	Low Moderate Low Low	.24 .32 .17 .10	3	6	1-3
HS447 Travessilla	0-8	5-18	0.6-2.0	.09-.17	7.4-8.9	<2	Low	.32	1	4L	
HS448 Torrifluvents Saline											
HS450 Torrifluvents Fluvaquents											
HS490 Shingle	0-4 4-15	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.21	7.4-9.0 7.4-9.0	<2 <2	Low Moderate	.32 .32	2	4L	
Theda lund	0-4 4-30	15-30 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.18	7.9-8.4 7.9-8.4	<8	Low Moderate	.32 .32	2	4L	
HS572 Worland	0-30		2.0-6.0	.11-.13	7.9-8.4	2-4	Low	.20	3	3	
Oceanet	0-14	5-18	2.0-6.0	.07-.13	7.4-9.0	<2	Low	.24	1	3	
HS601 Youngston	0-4 4-60	18-35 18-35	0.6-2.0 0.6-2.0	.19-.21 .19-.21	7.4-8.4 7.9-9.0	<2 2-8	Moderate Moderate	.37 .37	5	4L	
Uffens	0-3 3-60	15-25 18-35	0.2-0.6 0.2-0.6	.13-.15 .14-.16	>8.4 >8.4	>16 >16	Low Moderate	.49 .24	1	4L	
Glenton	0-10 10-60	18-35 18-35	0.6-2.0 0.6-2.0	.19-.21 .11-.16	7.4-9.0 7.9-9.0	<4 <4	Moderate Moderate	.32 .32	5	4L	
HS602 Binton	0-60	18-35	.06-0.2	.10-.14	>8.5	2-8	Moderate	.32	5	4L	
Uffens	0-3 3-60	15-25 18-35	0.2-0.6 0.2-0.6	.13-.15 .14-.16	>8.4 >8.4	>16 >16	Low Moderate	.49 .24	1	4L	
HS604 Effington	0-3 3-19 19-60	25-40 35-55 25-40	0.2-0.6 .06-0.2 0.2-0.6	.09-.11 .07-.09 .09-.11	>8.4 >9.0 >8.4	>8 >8 >8	Moderate High Moderate	.37 .32 .49	5	4L	

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erod- ibility Group	Organic Matter (Percent)
								K	T		
Effington Variant	0-3	30-60	.06-0.2	.08-.10	8.0-9.2	>8	High	.32	3	4	
HS645 Mudray	0-2 2-12 12-17	15-25 30-55 30-40	2.0-6.0 .06-0.2 .06-0.2	.11-.13 .14-.16 .14-.16	>7.8 >9.0 >9.0	<4 <4 <4	Low High Moderate	.32 .43 .37	1	3	
Persayo	0-14	18-35	0.2-0.6	.15-.19	7.9-9.0	<8	Moderate	.37	1	4L	
Effington Variant	0-3	30-60	.06-0.2	.08-.10	8.0-9.2	>8	High	.32	3	4	
HS671 Rock Outcrop											
Persayo	0-14	18-35	0.2-0.6	.15-.19	7.9-9.0	<8	Moderate	.37	1	4L	
HS700 Stoneham	0-4 4-9 9-40 40-60	15-30 25-40 18-35 10-20	0.6-2.0 0.6-2.0 0.6-2.0 2.0-6.0	.16-.18 .14-.18 .14-.18 .08-.12	6.6-7.8 7.4-8.4 7.9-8.4 7.9-8.4	<2 <2	Low Moderate Moderate Low	.20 .20 .20 .17	5	4L	
Cushman	0-7 7-12 12-24	10-20 18-35 10-25	0.6-2.0 0.6-2.0 0.6-2.0	.16-.20 .14-.18 .14-.18	6.6-8.4 6.6-8.4 6.6-9.0	<2	Low Moderate Low	.32 .32 .32	2	5	
HS702 Absted	0-3 3-60	15-30 35-50	2.0-6.0 .06-0.2	.15-.17 .11-.13	6.6-7.8 >7.9	2-4 >16	Moderate High	.52 .55	4	4L	
Fort Collins	0-8 8-18 18-60	15-27 18-35 12-27	0.6-2.0 0.6-2.0 0.6-2.0	.16-.20 .16-.18 .16-.18	6.6-7.8 6.6-7.8 7.9-9.0		Low Moderate Moderate	.20 .20 .20	5	6	1-2
HS703 Fort Collins	0-8 8-18 18-60	15-27 18-35 12-27	0.6-2.0 0.6-2.0 0.6-2.0	.16-.20 .16-.18 .16-.18	6.6-7.8 6.6-7.8 7.9-9.0		Low Moderate Moderate	.20 .20 .20	5	6	1-2
Cushman	0-7 7-12 12-24	10-20 18-35 10-25	0.6-2.0 0.6-2.0 0.6-2.0	.16-.20 .14-.18 .14-.18	6.6-8.4 6.6-8.4 6.6-9.0	<2	Low Moderate Low	.32 .32 .32	2	5	
HS705 Kfm	0-6 6-60	18-35 18-35	0.6-2.0 0.6-2.0	.16-.18 .15-.17	7.9-8.4 7.9-8.9	<8	Low Moderate	.32 .32	5	4L	
Theda lund	0-4 4-30	15-30 18-35	0.6-2.0 0.6-2.0	.16-.18 .16-.18	7.9-8.4 7.9-8.4	<8	Low Moderate	.32 .32	2	4L	

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
HS708 Renohill	0-7	25-35	0.2-0.6	.17-.21	6.6-7.8	<2	Moderate	.37	3	6	
	7-14	35-50	.06-0.2	.14-.16	6.6-8.4	<4	High	.32			
	14-30	25-40	0.2-0.6	.19-.21	7.9-9.0		Moderate	.37			
Cushman	0-7	10-20	0.6-2.0	.16-.20	6.6-8.4		Low	.32	2	5	
	7-12	18-35	0.6-2.0	.14-.18	6.6-8.4		Moderate	.32			
	12-24	10-25	0.6-2.0	.14-.18	6.6-9.0	<2	Low	.32			
Worfka	0-2	25-40	0.2-0.6	.17-.21	6.6-8.4	<2	Moderate	.32	2	6	
	2-19	30-50	.06-0.2	.19-.21	7.4-9.0	<2	Moderate	.37			
HS709 Renohill	0-7	25-35	0.2-0.6	.17-.21	6.6-7.8		Moderate	.37	3	6	
	7-14	35-50	.06-0.2	.14-.16	6.6-8.4	<2	High	.32			
	14-30	25-40	0.2-0.6	.19-.21	7.9-9.0	<4	Moderate	.37			
Cadoma	0-4	20-27	0.2-0.6	.14-.16	>7.8	>4	Moderate	.37	3	4L	
	4-34	35-60	.06-0.2	.08-.10	>7.8	>16	High	.37			
Worfka	0-2	25-40	0.2-0.6	.17-.21	6.6-8.4	<2	Moderate	.32	2	6	
	2-19	30-50	.06-0.2	.19-.21	7.4-9.0	<2	Moderate	.37			
HS720 Blazon	0-14	18-35	0.6-2.0	.16-.18	7.4-9.0	2-4	Low	.32	1	4L	
Rock Outcrop											
HS722 Blazon	0-14	18-35	0.6-2.0	.16-.18	7.4-9.0	2-4	Low	.32	1	4L	
HS723 Blazon	0-14	18-35	0.6-2.0	.16-.18	7.4-9.0	2-4	Low	.32	1	4L	
Delphill	0-3	18-35	0.6-2.0	.16-.20	7.4-8.4	<4	Low	.37	2	5	
	3-28	18-35	0.6-2.0	.14-.20	7.9-9.0	<4	Low	.37			
HS725 Blazon	0-14	18-35	0.6-2.0	.16-.18	7.4-9.0	2-4	Low	.32	1	4L	
Diamondville	0-7	15-30	0.6-2.0	.16-.18	6.6-7.8	<2	Low	.37	3	6	
	7-20	18-35	0.6-2.0	.19-.21	7.4-8.4	<2	Moderate	.49			
	20-28	15-30	0.6-2.0	.16-.18	7.9-8.4	<2	Low	.49			
HS735 Patent	0-60	18-35	0.6-2.0	.19-.21	7.4-9.0	<2	Moderate	.32	5	4L	
Forelle	0-4	15-30	0.6-2.0	.16-.18	6.6-7.8	<2	Low	.28	5	6	
	4-20	18-35	0.6-2.0	.16-.21	6.6-8.4	<2	Moderate	.32			
	20-60	15-30	0.6-2.0	.15-.17	7.9-9.0	<2	Moderate	.28			

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
HS736 Forelle	0-4	15-30	0.6-2.0	.16-.18	6.6-7.8	<2	Low	.28	5	6	
	4-20	18-35	0.6-2.0	.16-.21	6.6-8.4	<2	Moderate	.32			
	20-60	15-30	0.6-2.0	.15-.17	7.9-9.0	<2	Moderate	.28			
Pineilli	0-3	20-35	0.6-2.0	.16-.18	6.6-7.8	2-4	Low	.32	5	6	
	3-21	35-50	0.2-0.6	.19-.21	6.6-8.4	2-4	High	.37			
	21-60	25-40	0.2-0.6	.19-.21	7.9-9.0	2-4	Moderate	.37			
HS749 Renohill	0-7	25-35	0.2-0.6	.17-.21	6.6-7.8	<2	Moderate	.37	3	6	
	7-14	35-50	.06-0.2	.14-.16	6.6-8.4	<4	High	.32			
	14-30	25-40	0.2-0.6	.19-.21	7.9-9.0	<4	Moderate	.37			
Worfka	0-2	25-40	0.2-0.6	.17-.21	6.6-8.4	<2	Moderate	.32	2	6	
	2-19	30-50	.06-0.2	.19-.21	7.4-9.0	<2	Moderate	.37			
HS751 Worfka	0-2	25-40	0.2-0.6	.17-.21	6.6-8.4	<2	Moderate	.32	2	6	
	2-19	30-50	.06-0.2	.19-.21	7.4-9.0	<2	Moderate	.37			
Shingle	0-4	18-35	0.6-2.0	.16-.18	7.4-9.0	<2	Low	.32	2	4L	
	4-15	18-35	0.6-2.0	.16-.21	7.4-9.0	<2	Moderate	.32			
Rock Outcrop											
HS753 Gaynor	0-6	25-40	0.2-0.6	.14-.17	7.4-8.4	2-8	High	.24	2	4	
	6-30	35-50	.06-0.2	.12-.16	7.9-9.0		High	.32			
Sams il											
HS910 Cadoma	0-4	20-27	0.2-0.6	.14-.16	>7.8	>4	Moderate	.37	3	4L	
	4-34	35-60	.06-0.2	.08-.10	>7.8	>16	High	.37			
Theda lund	0-4	15-30	0.6-2.0	.16-.18	7.9-8.4	<8	Low	.32	2	4L	
	4-30	18-35	0.6-2.0	.16-.18	7.9-8.4		Moderate	.32			
Epsie (b)	0-3	40-60	<.06	.08-.12	7.4-8.4	>4	High	.32	3	4	
	3-16	50-60	<.06	.08-.12	7.9-8.9	>4	High	.32			
	16-28	50-60	<.06	.08-.12	7.9-8.9	>4	High	.32			
HS930 Rentsac Variant	0-8		0.6-2.0	0.16-0.18	6.6-7.3	----	Low	.28	2	5	
	8-16		0.2-2.0	0.15-0.17	6.6-7.8	----	Moderate	.37			
	16-30		0.6-2.0	0.14-0.16	7.9-8.4	----	Low	.32			
	30	----	----	----	----	----	----	----			
Rentsac	0-7	7-18	2.0-6.0	.12-.16	6.6-8.4	----	Low	.20	1	5	.5-2
	0-7	7-18	2.0-6.0	.08-.12	6.6-8.4	----	Low	.10	1	5	.5-2
	7-18	7-18	2.0-6.0	.07-.09	7.4-8.4	>4	Low	.10			
	18	----	----	----	----	----	----	----			

Table C-3. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodi- bility Group	Organic Matter (Percent)
								K	T		
Clayburn Variant	0-12 12-60	15-26 28-35	0.6-2.0 0.6-2.0	0.07-0.09 0.07-0.10	6.1-7.3 6.1-7.3	----- -----	Low Moderate	.20 .24	1	8	1-2
HS931 Clayburn Variant	0-12 12-60	15-26 28-35	0.6-2.0 0.6-2.0	0.07-0.09 0.07-0.10	6.1-7.3 6.1-7.3	----- -----	Low Moderate	.20 .24	1	8	1-2
Rentsac Variant	0-8 8-16 16-30 30	-----	0.6-2.0 0.2-2.0 0.6-2.0 -----	0.16-0.18 0.15-0.17 0.14-0.16 -----	6.6-7.3 6.6-7.8 7.9-8.4 -----	----- ----- ----- -----	Low Moderate Low -----	.28 .37 .32 -----	2	5	

a = Source: Soil Survey of Carbon County Area, Montana.

Source: See Glossary, Table A, for a description of properties.

b = Source: Data from series description (Form 5).

Table C-4. Physical and Chemical Properties of Lincoln and Sweetwater County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Boltus	0-12 12	40-50	0.06-0.2	0.08-0.10	7.9-9.0	8-16	High	.32	1	4	<1
Cambarge (b)	0-14		2.0-6.0	.12-.14	7.4-8.4	<4	Low				
	14-27		2.0-6.0	.06-.08	7.9-9.0	<4	Low				
	27-60		>6.0	.03-.04	7.9-9.0	<4	Low				
Chrisman	0-7	35-60	<0.06	0.05-0.17	7.9-9.0	<2	High	0.37	5	4	.5-1
	7-60	35-60	<0.06	0.10-0.15	7.8	>4	High	0.37			
Dines	0-7	18-27	0.2-0.6	0.09-0.11	>7.8	8-16	Moderate	0.37	5	6	<.5
	0-7	27-35	0.2-0.6	0.09-0.16	>8.4	8-16	Moderate	0.37	5	6	<.5
	7-60	18-35	0.2-0.6	0.04-0.06	>8.4	>16	Moderate	0.37			
Dunkle											
Dunul	0-8	8-20	6.0-20	0.07-0.09	7.9-8.4	<2	Low	.15	3	7	.5-1
	0-8	8-20	6.0-20	0.07-0.09	7.9-8.4	<2	Low	.15	3	7	.5-1
	0-8	8-20	6.0-20	0.10-0.12	7.9-8.4	<2	Low	.17	3	6	.5-1
	8-60	0-3	>20	0.04-0.06	7.9-8.4	<4	Low	.10			
Dunul Variant											
Forelle	0-4	15-20	2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.20	5	3	.5-1
	0-4	15-27	0.6-2.0	0.16-0.18	6.6-9.0	<2	Low	0.28	5	6	.5-1
	4-20	20-35	0.6-2.0	0.16-0.21	6.6-9.0	<2	Moderate	0.32			
	20-60	20-30	0.6-2.0	0.16-0.18	7.9-9.0	<2	Low	0.28			
Forelle	0-4	18-27	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	0.28	5	----	.5-1
	4-20	25-35	0.6-2.0	0.16-0.21	6.6-8.4	<2	Moderate	0.32			
	20-60	20-30	0.6-2.0	0.10-0.14	7.9-9.0	<2	Moderate	0.28			
Forelle Bedrock Substratum	0-4		2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.20	4	3	
	0-4		0.6-2.0	0.16-0.18	6.6-9.0	<2	Low	0.28	4	6	
	4-20		0.6-2.0	0.16-0.21	6.6-9.0	<2	Moderate	0.32			
	20-44		0.6-2.0	0.16-0.18	7.9-9.0	<2	Low	0.28			
	44										
Forelle	0-4		2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.20	5	3	
	0-4		0.6-2.0	0.16-0.18	6.6-9.0	<2	Low	0.28	5	3	
	4-20		0.6-2.0	0.16-0.21	6.6-9.0	<2	Moderate	0.32			
	20-60		0.6-2.0	0.16-0.18	7.9-9.0	<2	Low	0.28			
Garita (b)	0-9	15-25	0.6-2.0	0.05-0.10	7.4-8.4	----	Low	0.15	5	8	.5-1
	0-9	15-25	0.6-2.0	0.06-0.08	7.4-8.4	----	Low	0.10	5	8	.5-1
	0-9	5-15	2.0-6.0	0.05-0.07	7.4-8.4	----	Low	0.10	5	8	.5-1
	9-60	10-20	0.6-2.0	0.05-0.08	7.4-8.4	<2	Low	0.10			
Garsid	0-28		0.6-2.0	0.16-0.18	7.4-9.0	2-4	Low	0.32	3	4L	
	28										
Haterton	0-14		0.6-2.0	0.16-0.18	7.9-9.0	2-4	Low	0.37	2	4L	
	14										

Table C-4. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Hemering	0-3 3-60		0.6-2.0 0.6-2.0	0.11-0.15 0.05-0.10	7.4-8.4 7.9-9.0	2-4 2-4	Low Low	0.28 0.24	5	4L	
Horsley	0-6 6		0.6-2.0	0.11-0.15	7.4-9.0	2-4	Low	0.32	5	4L	
Hugoston	0-16 16		2.0-6.0	0.13-0.15	7.4-8.4	2-4	Low	0.32	2	3	
Kendaly	0-10 0-15		6.0-20 6.0-20	0.05-0.07 0.08-0.10	7.4-8.4 7.4-8.4	<2 <2	Low Low	0.28 0.32	5 5	1 2	----
Laney	0-4 4-60		0.6-2.0 0.06-0.6	0.09-0.16 0.09-0.16	>7.8 >8.4	>4 >4	Low Moderate	0.32 0.43	5	4L	
Langspring	0-11 11-26 26-60		0.6-2.0 2.0-0.6 0.6-2.0	0.13-0.15 0.13-0.16 0.13-0.16	7.9-8.4 8.5-9.0 7.9-9.0	---- <2 <4	Low Low Low	0.20 0.32 0.32	5	3	<1
Langspring Variant											
Leckman	5-18 5-18		2.0-6.0 2.0-6.0	0.11-0.14 0.11-0.14	7.9-8.4 7.9-9.0	<4 <8	Low Low	0.24 0.38	5	3	----
Monte	0-7 0-7 7-60		0.6-2.0 2.0-6.0 0.6-2.0	0.16-0.18 0.11-0.13 0.16-0.18	6.6-8.4 6.6-8.4 7.9-8.4	---- ---- ----	Low Low Low	0.24 0.28 0.24	5 5 5	5 3 3	
Pepal	5-18 5-18		2.0-6.0 2.0-6.0	0.09-0.14 0.07-0.14	7.4-8.4 7.9-9.0	<2 <4	Low Low	0.24 0.02	5	3	
Sagecreek	0-60 0-60		0.6-2.0 0.6-2.0	0.16-0.18 0.11-0.15	7.9-9.0 7.9-9.0	2-4 2-4	Low Low	0.32 0.28	5 5	4L 4L	
Sandbranch	0-5 5-16 16-60		0.6-2.0 0.6-2.0 0.6-2.0	.15-.17 .12-.14 .08-.12	7.8-9.0 8.5-9.0 8.5-9.0	<4 2-8 >8	Low Moderate Low				
Tasselman	0-3 0-3 3-14 14		2.0-6.0 2.0-6.0 2.0-6.0	0.11-0.13 0.07-0.11 0.07-0.11	7.4-9.0 7.4-9.0 7.9-9.0	2-4 2-4 2-4	Low Low Low	0.24 0.24 0.24	1 1	3 3	
Tresano	0-7 7-60		2.0-6.0 0.6-2.0	0.11-0.13 0.14-0.16	6.6-7.8 6.6-9.0	<2 <2	Low Moderate	0.24 0.28	5	3	

a = Source: Data from miscellaneous BLM surveys in Lincoln and Sweetwater Counties.
 Source: See Glossary, Table A, for a description of properties.
 b = Source: Data from soil series description (Form 5).

Table C-5. Physical and Chemical Properties of Natrona County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMH05/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
109 Amodac	0-4	15-20	0.6-2.0	0.13-0.15	7.9-9.0	<2	Low	0.32	5	3	1-2
	4-15	20-35	0.2-0.6	0.15-0.20	7.9-9.0	>2	Moderate	0.43			
	15-26	20-35	0.2-0.6	0.15-0.17	>8.4	2-4	Moderate	0.43			
	26-60	20-35	0.2-0.6	0.08-0.10	>8.4	4-16	Moderate	0.43			
Keyner	0-6	20-27	0.6-2.0	0.15-0.17	7.4-9.0	<2	Moderate	0.32	5	5	1-2
	6-11	20-35	0.06-0.2	0.15-0.20	7.9-9.0	<2	Moderate	0.37			
	11-18	20-35	0.06-0.2	0.12-0.15	>8.4	2-8	Moderate	0.43			
	18-60	15-25	0.06-0.2	0.11-0.13	>8.4	2-8	Low	0.43			
112 Arvada	0-3	27-35	0.2-0.6	0.10-0.15	6.6-9.0	<4	Moderate	0.32	5	5	0.5-1
	3-25	35-60	<0.06	0.07-0.09	7.8	<2	High	0.32			
	25-60	28-45	0.06-0.2	0.09-0.11	7.8	<4	High	0.32			
Absted	0-2	28-35	0.2-0.6	0.17-0.19	6.6-7.8	<2	Moderate	0.32	5	6	1-2
	2-12	35-50	0.06-0.2	0.15-0.19	6.6-7.8	<2	High	0.43			
	12-60	35-45	0.06-0.2	0.16-0.20	>7.8	2-8	Moderate	0.43			
Slickspots											
117 Badland											
124 Blackdraw	0-2	30-45	0.2-0.6	0.15-0.20	7.4-8.4	<4	Moderate	0.37	5	6	1-2
	2-17	35-55	0.06-0.2	0.12-0.15	7.4-8.4	<8	High	0.43			
	7-60	35-55	0.06-0.2	0.08-0.10	7.4-8.4	<8	High	0.43			
125 Blackdraw	0-1	30-45	0.2-0.6	0.15-0.20	7.4-8.4	<4	Moderate	0.37	5	6	1-2
	1-12	35-55	0.06-0.2	0.12-0.15	7.4-8.4	<8	High	0.43			
	12-60	35-55	0.06-0.2	0.08-0.10	7.4-8.4	<8	High	0.43			
Lolite	0-1	35-55	0.06-0.2	0.15-0.20	7.4-8.4	<4	High	0.37	5	4	1-2
	1-5	35-55	0.06-0.2	0.15-0.20	7.4-8.4	<8	High	0.43			
	5-12	35-55	0.06-0.2	0.04-0.06	7.4-8.4	<8	High	0.43			
	12	----	----	----	----	----	----	----			
Gullied Land											
126 Blazon	1-3	15-27	0.6-2.0	0.16-0.18	7.9-9.0	2-4	Low	0.32	2	5	.5-1
	3-15	18-35	0.2-0.6	0.18-0.20	7.9-9.0	2-4	Moderate	0.32			
	15	----	----	----	----	----	----	----			
Worfman	1-2	10-20	2.0-6.0	0.11-0.13	6.6-7.8	<2	Low	0.24	2	3	1-2
	2-17	18-35	0.6-2.0	0.15-0.19	6.6-9.0	<2	Moderate	0.32			
	17	----	----	----	----	----	----	----			

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
130 Bosler	0-8	10-20	2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.28	3	3	1-2
	8-24	18-30	0.6-2.0	0.14-0.16	6.6-7.8	<2	Moderate	0.32			
	24-60	0-5	6.0-20	0.02-0.04	7.9-9.0	<2	Low	0.05			
Alcova	0-5	-----	2.0-6.0	0.11-0.13	6.6-7.8	<2	Low	0.24	5	3	----
	5-17	-----	0.6-2.0	0.11-0.16	6.6-8.4	<2	Moderate	0.24			
	17-30	-----	0.6-2.0	0.05-0.07	7.9-9.0	<2	Low	0.02			
132 Bowbac	0-3	5-15	0.6-2.0	0.12-0.14	6.6-8.4	<2	Low	0.32	2	3	1-2
	3-26	20-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.37			
	26-37	15-25	0.6-2.0	0.12-0.17	7.9-9.0	<2	Low	0.37			
Hiland	0-2	8-18	6.0-20	0.07-0.12	6.6-8.4	<2	Low	0.20	5	3	1-2
	2-26	20-35	0.6-2.0	0.14-0.16	6.6-8.4	<2	Moderate	0.28			
	26-32	15-25	0.6-2.0	0.12-0.15	7.9-9.0	<4	Low	0.28			
134 Bowbac	0-4	5-15	0.6-2.0	0.12-0.14	6.6-8.4	<2	Low	0.32	2	3	1-2
	4-17	20-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.37			
	17-22	15-25	0.6-2.0	0.12-0.17	7.9-9.0	<2	Low	0.37			
Taluca	0-4	12-20	2.0-6.0	0.10-0.12	7.4-8.4	<2	Low	0.20	1	3	<1
	4-9	8-18	2.0-6.0	0.10-0.12	7.9-9.0	<2	Low	0.20			
	9	-----	-----	-----	-----	-----	-----	-----			
Terro	0-3	8-12	2.0-6.0	0.09-0.14	6.6-7.8	<2	Low	0.28	2	3	1-2
	3-17	10-18	2.0-6.0	0.12-0.14	6.6-7.8	<2	Low	0.28			
	17-34	10-18	2.0-6.0	0.12-0.14	7.4-8.4	<2	Low	0.32			
140 Cadoma	0-2	35-50	0.06-0.2	0.13-0.15	>6.5	<4	High	0.37	3	4	1-3
	2-13	35-60	0.06-0.2	0.16-0.19	>8.4	4-8	High	0.43			
	13-36	35-50	0.06-0.2	0.16-0.19	>8.4	4-16	High	0.43			
Renohill	0-3	27-35	0.2-0.6	0.17-0.21	6.6-7.8	<2	Moderate	0.37	3	6	1-3
	3-24	35-50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High	0.32			
	24-39	30-40	0.2-0.6	0.19-0.21	7.9-9.0	<4	Moderate	0.37			
Samday	0-4	30-45	0.2-0.6	0.15-0.20	6.6-8.4	<2	High	0.37	1	6	1-2
	4-13	35-50	0.06-0.2	0.14-0.18	7.4-9.0	<4	High	0.32			
	13	-----	-----	-----	-----	-----	-----	-----			
149 Chipendale Chipenhill	0-4	30-45	0.2-0.6	0.15-0.20	6.6-8.4	<2	High	0.37			
	4-13	35-50	0.06-0.2	0.14-0.18	7.4-9.0	<4	High	0.32			
	13	-----	-----	-----	-----	-----	-----	-----			

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodi- bility Group	Organic Matter (Percent)
								K	T		
150 Chipendale											
Razsun	0-3 3-11 11-21 21	30-40 35-45 35-45 ----	0.2-0.6 0.06-2.0 0.06-2.0 ----	0.19-0.21 0.15-0.20 0.12-0.15 ----	7.9-8.4 7.9-8.4 7.4-8.4 ----	<2 <2 2-8 ----	Moderate High High ----	0.32 0.37 0.37 ----	2	5	2-3
167 Cushman	0-3 3-19 19-24 24	10-20 20-35 20-35 ----	0.6-2.0 0.6-2.0 0.6-2.0 ----	0.16-0.18 0.17-0.20 0.17-0.20 ----	6.6-7.8 7.4-8.4 7.9-9.0 ----	<2 <2 <2 ----	Low Moderate Moderate ----	0.32 0.37 0.37 ----	2	5	1-2
Forkwood	0-3 3-22 22-60	12-25 18-30 20-35	0.6-2.0 0.6-2.0 0.6-2.0	0.15-0.17 0.19-0.21 0.16-0.18	6.6-8.4 6.6-8.4 7.9-9.0	2-4 2-4 2-4	Low Moderate Low	0.28 0.32 0.28	5	3	2-3
175 Duneland											
178 Effington	0-2 2-60	20-35 35-50	0.2-0.6 <0.06	0.09-0.11 0.07-0.09	>7.8 >9.0	<8 4-8	Moderate High	0.37 0.32	5	6	<1
Uffens (b)	0-1 0-1 1-10 10-54 54-57 57-70	15-20 10-15 20-30 20-30 40-45 0-5	0.2-0.6 0.6-2.0 0.2-0.6 0.2-0.6 0.2-0.6 6.0-20	0.15-0.17 0.09-0.12 0.15-0.17 0.07-0.11 0.09-0.11 0.02-0.04	>8.4 >8.4 >8.4 >8.4 >8.4 >8.4	>8 >8 >8 >16 >16 >16	Low Low Moderate Moderate Moderate Low	0.49 0.43 0.24 0.24 0.24 0.10	1 1	4L 3	5-1 5-1
179 Enos	0-2 2-15 15-34	----- ----- -----	2.0-6.0 >6.0 -----	0.11-0.13 0.06-0.08 -----	6.6-8.4 7.9-9.0 -----	2-4 2-4 -----	Low Low -----	0.17 0.17 -----	2	3	-----
Wallson	0-2 4-38 38-60	5-10 10-18 5-12	6.0-20 2.0-6.0 2.0-6.0	0.06-0.11 0.12-0.14 0.11-0.13	6.6-7.8 6.6-8.4 7.4-9.0	<2 2-4 2-4	Low Low Low	0.17 0.24 0.28	5	2	.3-.5
186 Forkwood	0-7 7-24 24-60	12-25 18-30 20-35	0.6-2.0 0.6-2.0 0.6-2.0	0.15-0.17 0.19-0.21 0.16-0.18	6.6-8.4 6.6-8.4 7.9-9.0	2-4 2-4 2-4	Low Moderate Low	0.28 0.32 0.28	5	3	2-3
Keyner	0-3 7-10 10-23 23-60	20-27 20-35 20-35 15-25	0.6-2.0 0.06-0.2 0.06-0.2 0.06-0.2	0.15-0.17 0.15-0.20 0.12-0.15 0.11-0.13	7.4-9.0 7.9-9.0 >8.4 >8.4	<2 <2 2-8 2-8	Moderate Moderate Moderate Low	0.32 0.37 0.43 0.43	5	5	1-2

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
187 Forkwood	0-2	12-25	0.6-2.0	0.15-0.17	6.6-8.4	2-4	Low	0.28	5	3	2-3
	2-13	18-30	0.6-2.0	0.19-0.21	6.6-8.4	2-4	Moderate	0.32			
	13-60	20-35	0.6-2.0	0.16-0.18	7.9-9.0	2-4	Low	0.28			
Ulm	0-2	28-35	0.6-2.0	0.16-0.18	6.6-7.8	<2	Moderate	0.32	5	6	1-3
	2-16	35-50	0.06-2.0	0.19-0.21	6.6-8.4	<2	High	0.37			
	16-60	30-42	0.6-2.0	0.19-0.21	7.9-9.0	<2	Moderate	0.37			
188 Forkwood	0-4	10-22	2.0-6.0	0.13-0.15	6.6-8.4	2-4	Low	0.28	5	3	1-2
	4-22	18-30	0.6-2.0	0.19-0.21	6.6-8.4	2-4	Moderate	0.32			
	22-60	20-35	0.6-2.0	0.16-0.18	7.9-9.0	2-4	Low	0.28			
Zigweid	0-3	18-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	6	1-2
	3-60	18-35	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	0.43			
190 Griffy	0-2	5-15	2.0-6.0	0.11-0.13	7.4-8.4	<2	Low	0.28	5	3	.5-1
	2-18	25-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.20			
	18-32	8-15	2.0-6.0	0.10-0.12	7.9-9.0	<4	Low	0.10			
191 Griffy	32-60	0-10	2.0-6.0	0.07-0.12	7.9-9.0	<4	Low	0.24			
	0-2	20-35	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	0.32	5	5	.5-1
	2-21	25-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.20			
Emblem	21-32	8-15	2.0-6.0	0.10-0.12	7.9-9.0	<4	Low	0.10			
	32-60	0-10	2.0-6.0	0.07-0.12	7.9-9.0	<4	Low	0.24			
	0-3	20-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	0.37	3	6	<1
194 Haverdard	3-17	20-27	0.6-2.0	0.16-0.18	7.4-9.0	<4	Low	0.47			
	17-26	0-10	>6.0	0.03-0.05	7.9-9.0	<4	Low	0.02			
	0-3	13-27	0.6-2.0	0.16-0.18	7.4-9.0	<8	Low	0.37	5	5	1-2
Clarkelen	3-60	20-35	0.6-2.0	0.16-0.18	7.9-9.0	<8	Low	0.37			
	0-6	5-15	2.0-6.0	0.12-0.14	7.4-8.4	<2	Low	0.24	5	3	1-2
	6-60	5-18	2.0-6.0	0.12-0.15	7.4-9.0	<4	Low	0.28			
195 Haverdard	0-2	13-27	0.6-2.0	0.16-0.18	7.4-9.0	<8	Low	0.37	5	5	1-2
	2-60	20-35	0.6-2.0	0.16-0.18	7.4-9.0	<8	Low	0.37			
	0-2	5-15	2.0-6.0	0.12-0.14	7.4-8.4	<2	Low	0.24	5	3	1-2
Clarkelen	2-60	5-18	2.0-6.0	0.12-0.15	7.4-9.0	<4	Low	0.28			
	0-2	3-8	6.0-20	0.07-0.09	6.6-8.4	<2	Low	0.20	5	2	1-2
	7-25	20-35	0.6-2.0	0.14-0.16	6.6-8.4	<2	Moderate	0.28			
199 Hiland	25-42	15-25	0.6-2.0	0.12-0.15	7.9-9.0	<4	Low	0.28			
	42-60	8-16	2.0-6.0	0.07-0.14	7.9-9.0	<4	Low	0.20			
								0.20			

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
201 Hiland	0-2	8-18	6.0-20	0.07-0.12	6.6-8.4	<2	Low	0.20	5	3	1-2
	2-22	20-35	0.6-2.0	0.14-0.16	6.6-8.4	<2	Moderate	0.28			
	22-60	8-16	2.0-6.0	0.07-0.14	7.9-9.0	<4	Low	0.20			
205 Irson	0-10	18-27	0.6-2.0	0.05-0.07	6.6-7.3	<2	Moderate	0.10	1	8	3-5
	10-14	20-27	0.6-2.0	0.03-0.05	6.6-7.3	<2	Moderate	0.05			
	14-11	20-27	0.6-2.0	0.06-0.09	6.6-7.3	<2	Moderate	0.10			
207 Keeline	3-60	5-18	2.0-6.0	0.09-0.14	7.9-9.0	<4	Low	0.28	---	---	---
	0-4	12-20	2.0-6.0	0.10-0.12	7.4-8.4	<2	Low	0.20	1	3	<1
	4-14	8-18	2.0-6.0	0.10-0.12	7.9-9.0	<2	Low	0.20			
208 Keyner	0-6	20-27	0.6-2.0	0.15-0.17	7.4-9.0	<2	Moderate	0.32	5	5	1-2
	6-11	20-35	0.06-0.2	0.15-0.20	7.9-9.0	<2	Moderate	0.37			
	11-18	20-35	0.06-0.2	0.12-0.15	>8.4	2-8	Moderate	0.43			
209 Keyner	18-60	15-25	0.06-0.2	0.11-0.13	>8.4	2-8	Low	0.43			
	0-1	3-15	2.0-6.0	0.07-0.14	7.4-9.0	<2	Low	0.20	5	3	0.5-1
	1-12	20-35	0.06-0.2	0.15-0.20	7.9-9.0	<2	Moderate	0.37			
Absted	12-31	20-35	0.06-0.2	0.12-0.15	>8.4	2-8	Moderate	0.43			
	31-60	15-25	0.06-0.2	0.11-0.13	>8.4	2-8	Low	0.43			
	0-3	28-35	0.2-0.6	0.17-0.19	6.6-7.8	<2	Moderate	0.32	5	6	1-2
Slickspots	3-14	35-50	0.06-0.2	0.15-0.19	6.6-7.8	<2	High	0.43			
	14-60	35-45	0.06-0.2	0.16-0.20	>7.8	2-8	Moderate	0.43			
210 Keyner	0-4	30-40	0.06-0.2	0.08-0.10	9.0	8-16	High	0.43	5	4	.5-1
	4-60	35-50	0.06-0.2	0.08-0.10	9.0	8-16	High	0.49			
	0-2	8-18	6.0-20	0.07-0.12	6.6-8.4	<2	Low	0.20	5	3	1-2
Hiland	2-14	20-35	0.6-2.0	0.14-0.16	6.6-8.4	<2	Moderate	0.28			
	14-22	15-25	0.6-2.0	0.12-0.15	7.9-9.0	<4	Low	0.28			
	22-60	8-16	2.0-6.0	0.07-0.14	7.9-9.0	<4	Low	0.20			

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMH0S/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
214 Lolite	0-2 2-6 6-10 10	35-55 35-55 35-55 ----	0.06-0.2 0.06-0.2 0.06-0.2 ----	0.15-0.20 0.15-0.20 0.04-0.06 ----	7.4-8.4 7.4-8.4 7.4-8.4 ----	<4 <8 <8 ----	High High High ----	0.37 0.43 0.43 ----	1	4	1-2
Rock outcrop											
215 Lolite	0-2 2-12 12-16 15	35-55 35-55 35-55 ----	0.06-0.2 0.06-0.2 0.06-0.2 ----	0.15-0.20 0.15-0.20 0.04-0.06 ----	7.4-8.4 7.4-8.4 7.4-8.4 ----	<4 <4 <8 ----	High High High ----	0.37 0.43 0.43 ----	1	4	1-2
Rock outcrop											
216 Lonebear	0-1 1-12 12-26 26-60	35-55 35-55 35-55 35-55	0.2-0.6 0.06-0.2 0.06-0.2 0.06-0.2	0.15-0.20 0.15-0.20 0.15-0.20 0.09-0.15	7.9-8.4 7.9-8.4 7.4-8.4 7.4-8.4	<2 <2 <4 2-8	High High High High	0.32 0.37 0.37 0.37	5	6	1-3
217 Lupinto	0-2 2-5 5-48 48	18-25 28-35 20-27 ----	0.06-0.2 0.2-0.6 0.06-0.2 ----	0.12-0.14 0.14-0.16 0.08-0.11 ----	6.6-7.8 6.6-7.8 7.9-9.0 ----	<2 <2 <4 ----	Low Moderate Moderate ----	0.24 0.28 0.10 ----	3	8	1-3
Alcova	0-4 4-16	-----	2.0-6.0 0.6-2.0	0.11-0.13 0.11-0.16	6.6-7.8 6.6-8.4	<2 <2	Low Moderate	0.24 0.24	5	3	----
220 Middletwood	0-5 5-18 18	-----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.10-0.13 ----	6.1-7.8 6.1-7.8 ----	<2 <2 ----	Moderate High ----	0.32 0.24 ----	1	6	----
Kather	0-3 3-24 24	-----	0.2-0.6 0.06-0.2 ----	0.18-0.20 0.14-0.17 ----	6.6-7.8 7.3-7.8 ----	<2 <2 ----	Moderate High ----	0.15 0.20 ----	2	----	----
221 Milren	0-3 3-14 14-27 27-60	10-20 35-45 20-30 10-20	0.2-0.6 0.06-0.2 0.6-0.2 2.0-6.0	0.11-0.13 0.15-0.17 0.14-0.16 0.13-0.15	6.6-7.8 7.4-7.8 7.8 7.8	<2 <2 <4 <4	Low High Moderate Low	0.20 0.24 0.24 0.20	5	3	1-2
Bosler	0-2 2-22 22-60	10-20 18-30 0-5	2.0-6.0 0.6-2.0 6.0-20	0.13-0.15 0.14-0.16 0.02-0.04	6.6-7.8 6.6-7.8 7.9-9.0	<2 <2 <2	Low Moderate Low	0.28 0.32 0.05	3	3	1-2
Rock River	0-3 3-22 22-60	10-18 20-30 5-25	2.0-6.0 0.6-2.0 2.0-6.0	0.11-0.13 0.14-0.16 0.11-0.13	6.6-8.4 6.6-8.4 7.9-9.0	<2 <2 2-4	Low Low Low	0.20 0.17 0.24	5	3	0.5-2

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
222 Mudray	0-2	5-15	2.0-6.0	0.11-0.13	>7.8	<4	Low	0.32	1	3	<1
	2-12	40-50	<0.06	0.14-0.16	>9.0	<4	High	0.43			
	12-18	27-35	0.2-0.6	0.14-0.16	>7.8	<4	Moderate	0.37			
	18	----	-----	-----	-----	-----	-----	-----			
Bributte	0-1	35-60	0.06-0.2	0.10-0.14	>8.4	2-16	High	0.32	1	4	<1
	1-17	35-60	0.06-0.2	0.10-0.14	>8.4	2-16	High	0.37			
	17	----	-----	-----	-----	-----	-----	-----			
Birdsley	0-1	28-35	<0.06	0.07-0.09	>8.4	<4	Moderate	0.43	1	6	<.5
	1-18	22-35	<0.06	0.07-0.09	>9.0	<8	Moderate	0.43			
	18	----	-----	-----	-----	-----	-----	-----			
223 Nathrop	0-4	15-25	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	0.24	2	8	2-4
	4-18	27-35	0.6-2.0	0.12-0.14	6.6-7.8	<2	Low	0.32			
	18-32	15-25	0.6-2.0	0.10-0.12	7.9-8.4	<2	Low	0.37			
	32	----	-----	-----	-----	-----	-----	-----			
Starley	0-7	15-27	0.6-2.0	0.11-0.13	6.6-8.4	<2	Low	0.20	1	6	2-4
	7-13	18-35	0.6-2.0	0.08-0.09	7.9-9.0	<2	Low	0.05			
	13	----	-----	-----	-----	-----	-----	-----			
225 Nummston	0-7	25-35	0.2-0.6	0.17-0.20	6.6-7.8	<2	Moderate	0.32	5	6	1-2
	7-27	35-55	0.06-0.2	0.17-0.20	7.4-8.4	<2	High	0.37			
	27-60	30-45	0.2-0.6	0.15-0.20	7.9-9.0	<2	High	0.37			
226 Oceanet	0-2	5-15	2.0-6.0	0.11-0.14	7.9-9.0	<2	Low	0.32	1	3	.5-1
	7-14	5-15	2.0-6.0	0.09-0.11	7.9-9.0	<2	Low	0.20			
	14	----	-----	-----	-----	-----	-----	-----			
Persayo	0-4	18-27	0.6-2.0	0.15-0.17	8.5-9.0	<8	Moderate	0.37	1	41	.5-1
	4-16	20-30	0.2-0.6	0.16-0.18	8.5-9.0	<8	Moderate	0.49			
	16	----	-----	-----	-----	-----	-----	-----			
227 Orellia	0-2	27-40	0.2-0.6	0.12-0.14	7.4-8.4	<4	High	0.32	2	4L	.5-1
	2-10	38-65	<0.06	0.09-0.11	7.4-9.0	4-16	High	0.32			
	10	----	-----	-----	-----	-----	-----	-----			
Cadoma	0-4	35-50	0.06-0.2	0.13-0.15	>6.5	<4	High	0.37	3	4	1-3
	4-14	35-60	0.06-0.2	0.16-0.19	>8.4	4-8	High	0.43			
	14-28	35-50	0.06-0.2	0.16-0.19	>8.4	4-16	High	0.43			
	28	----	-----	-----	-----	-----	-----	-----			
Petrie	0-5	30-40	0.06-0.2	0.19-0.21	>8.4	2-4	Moderate	0.49	5	4	.5-1
	5-60	35-50	<0.06	0.14-0.20	>8.4	4-8	High	0.49			

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodi- bility Group	Organic Matter (Percent)
								K	T		
228 Orellia	0-2 2-12 12	27-40 38-65 ----	0.2-0.6 <0.06 ----	0.12-0.14 0.09-0.11 ----	7.4-8.4 7.4-9.0 ----	<4 4-16 ----	High High ----	0.32 0.32 ----	2	4L	.5-1
229 Orpha	0-2 2-60	5-10 3-8	<20 <20	0.06-0.07 0.06-0.07	6.6-7.8 6.6-8.4	<2 <2	Low Low	0.17 0.28	5	2	1-2
232 Persayo	0-5 5-15 15	18-27 20-30 ----	0.6-2.0 0.2-0.6 ----	0.15-0.17 0.16-0.18 ----	8.5-9.0 8.5-9.0 ----	<8 <8 ----	Moderate Moderate ----	0.37 0.49 ----	1	4L	.5-1
Graybull	0-2 2-5 5-24	27-35 27-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-8.4 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ----	0.37 0.43 ----	3	6	.5-1
254 Rock Outcrop											
Birdsley	0-2 2-17 17	28-35 22-35 ----	<0.06 <0.06 ----	0.07-0.09 0.07-0.09 ----	>8.4 >9.0 ----	<4 <8 ----	Moderate Moderate ----	0.43 0.43 ----	1	6	<.5
256 Rock Outcrop											
Ustic Torriorthents											
Rubble land											
264 Roughlock loam	0-2 2-29 29-47 47	16-27 18-35 18-35 ----	0.6-2.0 0.6-2.0 0.6-2.0 ----	0.16-0.18 0.16-0.20 0.16-0.20 ----	7.4-8.4 8.5-9.0 8.5-9.0 ----	<2 <2 2-4 ----	Low Moderate Moderate ----	0.43 0.55 0.55 ----	3	5	1-2
Roughlock loam	0-3 3-8 8-27 27	8-16 11-27 11-27 ----	0.6-6.0 0.6-6.0 0.6-6.0 ----	0.14-0.18 0.14-0.18 0.14-0.18 ----	7.9-9.0 7.9-9.0 8.5-9.0 ----	<2 <2 <4 ----	Low Low Low ----	0.43 0.49 0.49 ----	2	6	1-2
Roughlock loam	0-2 2-9 9-15 15	8-16 10-18 10-18 ----	0.6-2.0 0.6-2.0 0.6-2.0 ----	0.17-0.20 0.17-0.20 0.17-0.20 ----	7.9-8.4 7.9-8.4 7.9-9.0 ----	<2 <2 <4 ----	Low Low Low ----	0.43 0.49 0.49 ----	1	5	1-2

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodi- bility Group	Organic Matter (Percent)
								K	T		
270 Saddle	0-3	10-15	2.0-6.0	0.11-0.13	6.6-7.8	<2	Low	0.24	3	3	<1
	3-14	20-35	0.6-2.0	0.14-0.16	6.6-7.8	<2	Moderate	0.24			
	14-18	12-20	0.6-2.0	0.12-0.14	7.9-9.0	<4	Low	0.28			
	18-30 30	5-15 ----	2.0-6.0 -----	0.11-0.13 -----	7.9-9.0 -----	<4 -----	Low -----	0.28 -----			
Griffy	0-3	20-35	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	0.32	5	5	.5-1
	3-21	25-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.20			
	21-60	8-15	2.0-6.0	0.10-0.12	7.9-9.0	<4	Low	0.10			
275 Shingle	0-2	12-20	0.6-2.0	0.16-0.18	7.4-9.0	<2	Low	0.32	2	5	1-3
	2-13	8-18	0.6-2.0	0.16-0.21	7.4-9.0	<2	Moderate	0.49			
	13	-----	-----	-----	-----	-----	-----	-----			
Taluca	0-3	12-20	2.0-6.0	0.10-0.12	7.4-8.4	<2	Low	0.20	1	3	<1
	3-12	8-18	2.0-6.0	0.10-0.12	7.9-9.0	<2	Low	0.20			
	12	-----	-----	-----	-----	-----	-----	-----			
Rock outcrop											
276 Shingle	0-1	18-27	0.6-2.0	0.16-0.18	7.4-9.0	<2	Low	0.32	2	5	1-3
	1-11	20-35	0.6-2.0	0.16-0.21	7.4-9.0	<2	Moderate	0.49			
	11	-----	-----	-----	-----	-----	-----	-----			
Theedle	0-1	5-15	2.0-6.0	0.13-0.15	7.4-8.4	<2	Low	0.37	2	3	1-2
	1-26	18-35	0.6-2.0	0.17-0.20	7.4-8.4	<8	Moderate	0.37			
	26	-----	-----	-----	-----	-----	-----	-----			
277 Silhouette	0-3	30-45	0.2-0.6	0.15-0.20	7.4-8.4	<2	High	0.32	5	6	1-2
	3-17	35-50	0.06-0.2	0.14-0.18	7.4-9.0	<4	High	0.37			
	17-60	30-45	0.2-0.6	0.15-0.20	7.4-8.4	<2	High	0.37			
278 Silhouette	0-2	30-45	0.2-0.6	0.15-0.20	7.4-8.4	<2	High	0.32	5	6	1-2
	2-23	35-50	0.06-0.2	0.14-0.18	7.4-9.0	<4	High	0.37			
	23-60	30-45	0.2-0.6	0.15-0.20	7.4-8.4	<2	High	0.37			
Petrie	0-3	30-40	0.06-0.2	0.19-0.21	>8.4	2-4	Moderate	0.49	5	4	.5-1
	3-60	35-50	<0.06	0.14-0.20	>8.4	4-8	High	0.49			
282 Terro	0-3	8-12	2.0-6.0	0.09-0.14	6.6-7.8	<2	Low	0.28	2	3	1-2
	3-28	10-18	2.0-6.0	0.12-0.14	6.6-7.8	<2	Low	0.28			
	28-34	10-18	2.0-6.0	0.12-0.14	7.4-8.4	<2	Low	0.32			
Vona lee	0-2	5-15	2.0-6.0	0.12-0.14	6.6-7.8	<2	Low	0.28	5	3	1-2
	2-60	5-15	2.0-6.0	0.12-0.14	6.6-7.8	<2	Low	0.32			

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
283 Theedle	0-3 3-27 27	28-35 18-35 ----	0.6-2.0 0.6-2.0 ----	0.18-0.20 0.17-0.20 ----	7.4-8.4 7.4-8.4 ----	<2 <8 ----	Moderate Moderate ----	0.37 0.37 ----	2	6	1-2
Shingle	0-2 2-17 17	18-27 20-35 ----	0.6-2.0 0.6-2.0 ----	0.16-0.18 0.16-0.21 ----	7.4-9.0 7.4-9.0 ----	<2 <2 ----	Low Moderate ----	0.32 0.49 ----	2	5	1-3
Kishona	0-5 5-60	27-35 20-35 ----	0.6-2.0 0.6-2.0 ----	0.19-0.21 0.10-0.17 ----	7.4-8.4 7.9-9.0 ----	4-8 2-8 ----	Moderate Moderate ----	0.32 0.32 ----	5	6	.5-1
284 Threetop	0-2 2-13 13-18 18-21 21-24 24	15-25 25-35 18-25 18-25 18-25 ----	2.0-6.0 0.6-2.0 2.0-6.0 2.0-6.0 0.6-2.0 ----	0.12-0.17 0.15-0.20 0.12-0.17 0.04-0.08 0.09-0.13 ----	6.6-7.8 7.4-8.4 7.9-9.0 7.9-9.0 7.9-9.0 ----	<2 <2 <4 <4 <4 ----	Low Moderate Low Low Low ----	0.32 0.37 0.37 0.17 0.15 ----	2	3	1-2
Sunup	0-2 2-6 6-10	18-28 18-28 ----	0.6-2.0 0.6-2.0 ----	0.07-0.09 0.07-0.09 ----	7.9-8.4 7.9-9.0 ----	<2 <2 ----	Moderate Moderate ----	0.10 0.10 ----	1	8	1-2
Frontier	0-4 4-14 14-17 17	10-20 25-35 25-35 ----	2.0-6.0 0.6-2.0 0.6-2.0 ----	0.11-0.13 0.15-0.20 0.15-0.20 ----	7.4-8.4 7.4-8.4 7.9-9.0 ----	<2 <2 <2 ----	Low Moderate Moderate ----	0.24 0.28 0.32 ----	1	3	1-2
289 Typic Torrifluvents											
290 Uffens											
291 Uffens											
Typic Torrifluvents											
293 Uim	0-2 2-24 24-60	20-25 35-50 30-42 ----	0.6-2.0 0.06-2.0 0.6-2.0 ----	0.16-0.18 0.19-0.21 0.19-0.21 ----	6.6-7.8 6.6-8.4 7.9-9.0 ----	<2 <2 <2 ----	Low High Moderate ----	0.32 0.37 0.37 ----	5	6	1-3
Absted	0-2 2-8 8-18 18-60	8-18 35-50 35-45 27-35 ----	2.0-6.0 0.06-0.2 0.06-0.2 0.2-0.6 ----	0.11-0.13 0.15-0.19 0.16-0.20 0.12-0.15 ----	6.6-7.8 6.6-7.8 >7.8 >7.8 ----	<2 <2 2-8 2-8 ----	Low High Moderate Moderate ----	0.32 0.43 0.43 0.37 ----	5	3	1-2

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
301 Vona tee	0-3	0-10	6.0-20	0.07-0.09	6.6-7.8	<2	Low	0.24	5	2	1-2
	3-19	5-15	2.0-6.0	0.12-0.14	6.6-7.8	<2	Low	0.32			
	19-60	0-10	6.0-20	0.07-0.09	7.4-9.0	<2	Low	0.24			
Hiland	0-5	8-18	6.0-20	0.07-0.12	6.6-8.4	<2	Low	0.20	5	3	1-2
	5-26	20-35	0.6-2.0	0.14-0.16	6.6-8.4	<2	Moderate	0.28			
	26-60	15-25	0.6-2.0	0.12-0.15	7.9-9.0	<4	Low	0.28			
306 Horf	0-2	10-20	2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.28	2	3	1-3
	2-6	18-35	0.6-2.0	0.19-0.21	6.6-7.8	<2	Moderate	0.37			
	6-14	----	----	----	----	----	----	----			
Bowbac	0-3	5-15	0.6-2.0	0.12-0.14	6.6-8.4	<2	Low	0.32	2	3	1-2
	3-15	20-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.37			
	15-28	15-25	0.6-2.0	0.12-0.17	7.9-9.0	<2	Low	0.37			
310 Zigweid	0-3	18-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	6	1-2
	3-60	18-35	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	0.43			
311 Zigweid	0-3	18-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	6	1-2
	3-60	18-35	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	0.43			
Theedle	0-8	10-20	0.6-2.0	0.17-0.20	7.4-8.4	<2	Low	0.37	2	5	1-2
	8-36	18-35	0.6-2.0	0.17-0.20	7.4-8.4	<8	Moderate	0.37			
	36	----	----	----	----	----	----	----			

a = Source: Data from draft Natrona County Soil Survey.

Source: See Glossary, Table A, for a description of properties.

b = Source: Data from soil series description (Form 5).

Table C-5. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
301 Vona tee	0-3	0-10	6.0-20	0.07-0.09	6.6-7.8	<2	Low	0.24	5	2	1-2
	3-19	5-15	2.0-6.0	0.12-0.14	6.6-7.8	<2	Low	0.32			
	19-60	0-10	6.0-20	0.07-0.09	7.4-9.0	<2	Low	0.24			
Hiland	0-5	8-18	6.0-20	0.07-0.12	6.6-8.4	<2	Low	0.20	5	3	1-2
	5-26	20-35	0.6-2.0	0.14-0.16	6.6-8.4	<2	Moderate	0.28			
	26-60	15-25	0.6-2.0	0.12-0.15	7.9-9.0	<4	Low	0.28			
306 Worf	0-2	10-20	2.0-6.0	0.13-0.15	6.6-7.8	<2	Low	0.28	2	3	1-3
	2-6	18-35	0.6-2.0	0.19-0.21	6.6-7.8	<2	Moderate	0.37			
	6-14	----	----	----	----	----	----	----			
Bowbac	0-3	5-15	0.6-2.0	0.12-0.14	6.6-8.4	<2	Low	0.32	2	3	1-2
	3-15	20-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.37			
	15-28	15-25	0.6-2.0	0.12-0.17	7.9-9.0	<2	Low	0.37			
310 Zigweid	0-3	18-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	6	1-2
	3-60	18-35	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	0.43			
311 Zigweid	0-3	18-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	6	1-2
	3-60	18-35	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	0.43			
Theedle	0-8	10-20	0.6-2.0	0.17-0.20	7.4-8.4	<2	Low	0.37	2	5	1-2
	8-36	18-35	0.6-2.0	0.17-0.20	7.4-8.4	<8	Moderate	0.37			
	36	----	----	----	----	----	----	----			

a = Source: Data from draft Natrona County Soil Survey.

Source: See Glossary, Table A, for a description of properties.

b = Source: Data from soil series description (Form 5).

Table C-6. Physical and Chemical Properties of Soil Series of Park and Big Horn Counties. (a)

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Aldrich	0-4	35-50	0.06-0.2	0.19-0.21	7.4-9.0	<2	High	0.37	5	4L	<1
	4-60	35-50	0.06-0.2	0.19-0.21	7.4-9.0	<2	High	0.37			
Apron	0-6	5-18	2.0-6.0	0.11-0.13	7.4-8.4	<2	Low	0.20	5	3	.5-1
	0-6	0-10	2.0-6.0	0.06-0.08	7.4-8.4	<2	Low	0.20	5	2	.5-1
Arvada	0-60	5-18	2.0-6.0	0.11-0.13	7.9-9.0	<2	Low	0.20			
Arvada	0-4	10-20	2.0-6.0	0.13-0.15	6.6-9.0	<4	Low	0.24	5	3	0.5-1
	0-4	15-27	0.6-2.0	0.16-0.18	6.6-9.0	<4	Low	0.32	5	5	0.5-1
Arvada	0-4	27-35	0.2-0.6	0.10-0.15	6.6-9.0	<4	Moderate	0.32	5	5	0.5-1
	4-14	35-60	<0.06	0.07-0.09	7.8	<2	High	0.32			
Baroid	14-60	28-45	0.06-0.2	0.09-0.11	7.8	<4	High	0.32			
Baroid	0-6	5-12	6.0-20	0.06-0.08	7.9-9.0	<8	Low	0.28	5	2	<.5
	6-60	3-5	6.0-20	0.06-0.08	7.9-9.0	<8	Low	0.28			
Binton	0-6	27-35	0.06-0.2	0.15-0.17	8.4	2-8	Moderate	0.32	5	6	<1
	0-6	10-20	<0.6-2.0	0.15-0.17	8.4	2-8	Low	0.43	5	4	<1
Bowbac	6-60	18-35	0.06-0.2	0.10-0.14	8.4	2-8	Moderate	0.32			
Bowbac	0-5	20-27	0.6-2.0	0.14-0.18	6.6-7.3	----	Moderate	0.37	3	6	1-2
	0-5	10-20	0.6-2.0	0.11-0.13	6.6-7.3	----	Low	0.24	3	3	.5-2
Bributte	5-18	27-35	0.6-2.0	0.14-0.18	6.6-7.8	----	Moderate	0.32			
	18-20	27-35	0.6-2.0	0.14-0.18	7.4-8.4	<2	Moderate	0.32			
Bributte	20-23	10-20	0.6-2.0	0.11-0.13	7.4-8.4	<2	Low	0.24			
	23	----	----	----	----	----	----	----			
Bributte	0-3	35-60	0.06-0.2	0.10-0.14	>8.4	2-16	High	0.32	1	4	<1
	0-3	35-60	0.06-0.2	0.10-0.14	>8.4	2-16	High	0.15	1	8	<1
Cestnik	1-12	35-60	0.06-0.2	0.10-0.14	>8.4	2-16	High	0.37			
	12	----	----	----	----	----	----	----			
Cestnik	0-24	40-50	0.06-0.2	0.15-0.17	7.9-9.0	2-8	High	0.32	2	4	<1
	24-60	0-4	>20	0.03-0.05	7.9-8.4	2-4	Low	0.02			
Chipeta	0-5	40-47	0.06-0.2	0.11-0.16	7.4-8.4	8-16	Moderate	0.43	1	4L	<2
	0-5	40-47	0.06-0.2	0.11-0.14	7.4-9.0	8-16	Moderate	0.20	1	4L	<2
Chipeta	0-5	30-40	0.2-0.6	0.09-0.11	7.4-8.4	8-16	Moderate	0.43	1	5	<2
	5-17	35-45	0.06-0.2	0.11-0.16	7.4-9.0	8-16	Moderate	0.43			
Copeman	17	----	----	----	----	----	----	----			
Copeman	0-3	20-27	0.6-2.0	0.17-0.19	7.9-8.4	<2	Low	0.37	2	4L	1-2
	0-3	27-35	0.6-2.0	0.17-0.19	7.9-8.4	<2	Moderate	0.32	2	4L	1-2
Copeman	3-32	23-35	0.6-2.0	0.15-0.19	7.9-8.4	<4	Moderate	0.28			
	32-41	27-35	0.6-2.0	0.07-0.10	7.9-8.4	<4	Moderate	0.15			
Deaver	41-60	5-10	2.0-6.0	0.04-0.06	7.9-8.4	<4	Low	0.10			
Deaver	0-4	18-40	0.2-0.6	0.12-0.14	7.9-8.4	<4	Moderate	0.43	3	4L	.5-1
	0-4	35-40	0.06-0.2	0.19-0.21	7.9-8.4	<4	Moderate	0.43	3	4	.5-1
Deaver	0-4	35-40	0.06-0.2	0.13-0.16	7.9-8.4	<4	Moderate	0.24	3	8	.5-1
	4-24	40-50	0.06-0.2	0.14-0.16	7.9-8.4	<4	Low	0.32			
Deaver	24	----	----	----	----	----	----	----			

Table C-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Dobent	0-7 7-60	15-30 18-27	0.6-2.0 0.6-2.0	0.16-0.18 0.16-0.18	7.4-9.0 7.4-9.0	4-8 4-8	Low Low	0.28 0.32	5	5	1-2
Emblem	0-2 0-2 0-2 2-20 20-60	20-27 27-35 5-15 20-27 0-10	0.6-2.0 0.6-2.0 2.0-6.0 0.6-2.0 >6.0	0.16-0.18 0.11-0.15 0.10-0.13 0.16-0.18 0.03-0.05	7.4-8.4 7.4-8.4 7.4-8.4 7.4-9.0 7.9-9.0	----- ----- ----- <4 -----	Low Moderate Low Low Low	0.32 0.32 0.28 0.37 0.02	2 2 2	6 8 5	<1 <1 <1
Enos	0-4 0-4 4-20 20-34 34	5-15 0-5 8-18 4-12 -----	2.0-6.0 6.0-20 2.0-6.0 2.0-20 -----	0.09-0.12 0.05-0.09 0.09-0.12 0.05-0.10 -----	6.6-7.8 6.6-7.8 6.6-8.4 7.9-9.0 -----	<2 <2 <2 <2 -----	Low Low Low Low -----	0.28 0.24 0.32 0.02 -----	2 2	3 2	<.5 <.5
Forkwood	0-2 0-2 2-19 19-60	12-25 10-20 18-30 20-35	0.6-2.0 2.0-6.0 0.6-2.0 0.6-2.0	0.15-0.17 0.13-0.15 0.19-0.21 0.16-0.18	6.6-8.4 6.6-8.4 6.6-8.4 7.9-9.0	2-4 2-4 2-4 2-4	Low Low Moderate Low	0.28 0.24 0.32 0.28	5 5	3 3	2-3 1-2
Forkwood	0-3 3-16 16-60	15-35 20-35 10-27	0.6-2.0 0.6-2.0 0.6-2.0	0.17-0.20 0.17-0.20 0.14-0.20	6.6-7.8 6.6-7.8 7.4-8.4	----- ----- -----	Moderate Moderate Moderate	0.32 0.37 0.37	5	6	1-2
Fort Collins	0-8 0-8 0-8 8-18 18-60	12-20 12-20 27-35 18-35 12-27	0.6-2.0 0.6-6.0 0.2-0.6 0.6-2.0 0.6-2.0	0.16-0.20 0.14-0.17 0.16-0.18 0.16-0.18 0.16-0.18	6.6-7.8 6.6-7.8 7.4-7.8 6.6-7.8 7.9-9.0	----- ----- ----- ----- <2	Low Low Low Moderate Low	0.24 0.20 0.24 0.24 0.24	5 5 5	6 3 6	1-2 1-2 .5-1
Garland	0-4 0-4 4-21 21-30 30-60	20-27 27-35 27-35 20-30 3-5	0.6-2.0 0.6-2.0 0.6-2.0 0.6-2.0 <6.0	0.16-0.18 0.19-0.21 0.19-0.21 0.14-0.16 0.03-0.05	7.4-8.4 7.4-8.4 7.4-9.0 7.9-9.0 7.5-8.4	2-4 2-4 2-4 2-4 <2	Low Moderate Moderate Moderate Low	0.32 0.32 0.28 0.28 0.02	4 4	6 6	<1 <1
Gaynor	0-6 0-6 0-6 6-30 30	20-27 30-40 40-50 35-55 -----	0.6-2.0 0.2-0.6 0.2-0.6 0.06-0.2 -----	0.10-0.13 0.15-0.17 0.14-0.16 0.12-0.16 -----	7.4-8.4 7.4-8.4 7.4-8.4 7.9-9.0 -----	----- <2 ----- <8 -----	Low Moderate High -----	0.15 0.37 0.32 0.37 -----	2 2 2	6 4L 5	.5-1 .5-1 .5-1
Glenton	0-8 0-8 8-60	5-18 10-20 15-18	2.0-6.0 0.6-0.2 2.0-6.0	0.11-0.13 0.16-0.18 0.11-0.13	7.4-9.0 7.4-8.4 7.9-8.4	<2 <2 <2	Low Low Low	0.24 0.28 0.24	5 5	3 4L	.4-1 .4-1
Greybull	0-4 4-28 28	27-35 27-35 -----	0.2-0.6 0.2-0.6 -----	0.19-0.21 0.19-0.21 -----	7.9-8.4 7.9-9.0 -----	2-4 2-4 -----	Moderate Moderate -----	0.37 0.43 -----	3	6	.5-1

Table C-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Griffy	0-4	20-35	0.6-2.0	0.16-0.18	7.4-8.4	----	Low	0.32	5	5	.5-1
	0-4	20-27	0.6-2.0	0.12-0.14	7.4-8.4	----	Low	0.15	5	8	.5-1
	0-4	5-15	2.0-6.0	0.11-0.13	7.4-8.4	----	Low	0.28	5	3	.5-1
	4-15	25-35	0.6-2.0	0.14-0.16	7.4-8.4	<2	Moderate	0.20			
	15-60	8-15	2.0-6.0	0.10-0.12	7.9-9.0	<4	Low	0.10			
Hiland	60-70	0-10	2.0-6.0	0.07-0.12	7.9-9.0	<4	Low	0.24			
	0-2	8-18	6.0-20	0.07-0.12	6.6-8.4	----	Low	0.20	5	3	1-2
	0-2	20-25	2.0-6.0	0.13-0.15	6.6-8.4	----	Moderate	0.24	5	5	1-2
	0-2	3-8	6.0-20	0.07-0.09	6.6-8.4	<2	Low	0.20	5	2	1-2
	2-17	20-35	0.6-2.0	0.14-0.16	6.6-8.4	<2	Moderate	0.28			
Keymer	17-22	15-25	0.6-2.0	0.12-0.15	7.9-9.0	<4	Low	0.28			
	22-60	8-16	2.0-6.0	0.07-0.14	7.9-9.0	<4	Low	0.20			
	0-6	3-15	2.0-6.0	0.07-0.14	7.4-9.0	<2	Low	0.20	5	3	.5-1
	0-6	20-27	0.6-2.0	0.15-0.17	7.4-9.0	<2	Moderate	0.32	5	5	1-2
	6-11	20-35	0.06-0.2	0.15-0.20	7.9-9.0	<2	Moderate	0.37			
Kim	11-18	20-35	0.06-0.2	0.12-0.15	>8.4	2-8	Moderate	0.43			
	18-60	15-25	0.06-0.2	0.11-0.13	>8.4	2-8	Low	0.43			
	0-6	15-27	0.6-2.0	0.16-0.18	7.4-8.4	----	Low	0.32	5	4L	.5-1
	0-6	10-20	2.0-6.0	0.14-0.16	7.9-8.4	----	Low	0.28	5	3	.5-1
	0-6	28-35	0.2-0.6	0.17-0.20	7.4-8.4	----	Low	0.28	5	6	.5-1
Kinneear	6-60	20-35	0.6-2.0	0.15-0.17	7.9-8.4	<4	Low	0.32			
	0-10	27-35	0.2-0.6	0.19-0.21	7.9-9.0	<4	Moderate	0.32	5	4L	<1
	0-10	20-35	0.6-2.0	0.14-0.16	7.9-9.0	<4	Low	0.24	5	5	<1
	0-10	15-20	0.6-2.0	0.13-0.15	7.9-8.4	<4	Low	0.20	5	3	<1
	10-60	15-27	0.6-2.0	0.14-0.16	7.9-9.0	<4	Low	0.28			
Kishona	0-4	10-27	0.6-2.0	0.16-0.18	7.4-8.4	<4	Low	0.28	5	4L	.5-1
	0-4	27-35	0.6-2.0	0.19-0.21	7.4-8.4	4-8	Moderate	0.32	5	6	.5-1
	0-4	8-15	2.0-6.0	0.13-0.15	7.4-8.4	<4	Low	0.24	5	3	.5-1
	4-60	20-35	0.6-2.0	0.10-0.17	7.9-9.0	2-8	Moderate	0.32			
	60-70	20-27	0.6-2.0	0.15-0.20	7.9-9.0	2-8	Low	0.43			
Las Animas	0-14	8-18	2.0-6.0	0.16-0.20	7.4-7.8	<4	Low	0.28	5	3	.5-2
	0-14	4-10	6.0-20	0.07-0.09	7.4-7.8	<4	Low	0.10	5	2	.5-2
	0-14	15-25	0.6-2.0	0.16-0.18	7.4-7.8	<4	Low	0.28	5	4L	.5-2
	14-42	8-18	2.0-6.0	0.12-0.18	7.4-7.8	<2	Low	0.28			
	42-60	0-5	6.0-20	0.06-0.08	7.4-7.8	----	Low	0.15			
Lostwells	0-10	20-30	0.6-2.0	0.11-0.16	7.4-8.4	----	Moderate	0.32	5	5	<1
	0-10	27-35	0.2-0.6	0.19-0.21	7.4-8.4	----	Moderate	0.32	5	6	<1
	0-10	20-27	0.6-2.0	0.17-0.19	7.4-8.4	----	Low	0.37	5	5	<1
	10-60	20-30	0.6-2.0	0.13-0.16	7.9-9.0	<4	Moderate	0.32			
	0-3	18-27	0.2-0.6	0.16-0.18	7.4-9.0	<4	Moderate	0.43	5	5	.5-1
Meeteetse	0-3	2-8	2.0-6.0	0.06-0.08	7.4-9.0	<4	Low	0.24	5	2	.5-1
	0-3	27-35	0.6-2.0	0.17-0.19	7.4-9.0	<4	Moderate	0.32	5	6	.5-1
	3-18	35-60	<0.06	0.14-0.16	>9.0	<4	High	0.49			
	18-60	25-35	0.06-0.2	0.15-0.20	7.9-9.0	<4	Moderate	0.43			

Table C-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHUS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Midway	0-3	40-60	0.06-0.2	0.14-0.18	6.6-8.4	2-4	High	0.43	1	4	.5-2
	0-3	30-40	0.2-0.6	0.14-0.18	6.6-8.4	2-4	Moderate	0.43	1	4L	.5-2
	0-3	30-40	0.2-0.6	0.14-0.18	6.6-8.4	2-4	Moderate	0.28	1	6	.5-2
	3-12 12	35-45	0.06-0.2	0.14-0.18	7.9-9.0	2-8	High	0.43			
Mudray	0-2	5-15	2.0-6.0	0.11-0.13	>7.8	<4	Low	0.32	1	3	<1
	0-2	20-35	0.6-2.0	0.14-0.16	>7.8	<4	Moderate	0.32	1	5	<1
	2-12	40-50	<0.06	0.14-0.16	>9.0	<4	High	0.43			
	12-15 15-17 17	20-30 27-35	<0.06 0.2-0.6	0.14-0.16	>9.0 >7.8	<4	Moderate Moderate	0.37 0.37			
Muff or Muffler	0-5	10-20	0.6-2.0	0.15-0.17	7.4-8.4	2-4	Low	0.32	3	3	<1
	0-5	5-15	0.6-2.0	0.13-0.15	7.4-8.4	2-4	Low	0.32	3	3	<1
	5-19	20-35	0.06-0.2	0.04-0.16	>8.4	4-8	Moderate	0.37			
	19-30 30	20-30	0.2-0.6	0.12-0.14	>8.4	<4	Moderate	0.32			
Oceanet	0-5	5-15	2.0-6.0	0.11-0.14	7.9-9.0	<2	Low	0.32	1	3	.5-1
	5-14 14	5-15	2.0-6.0	0.09-0.11	7.9-9.0	<2	Low	0.20			
Olney Sandy Surface	0-8	5-10	6.0-20	0.06-0.10	6.6-7.8	---	Low	0.15	5	2	.5-1
	8-16	18-35	0.6-2.0	0.13-0.15	6.6-7.8	---	Moderate	0.24			
	16-22	15-30	0.6-2.0	0.11-0.15	7.9-8.4	<2	Low	0.24			
	22-60	5-15	2.0-6.0	0.06-0.13	7.9-9.0	<2	Low	0.17			
Otero	0-14	10-20	2.0-6.0	0.11-0.13	7.4-8.4	<2	Low	0.20	5	3	.3-2
	0-14 14-60	5-10 5-18	6.0-20	0.09-0.11 0.08-0.12	7.4-8.4 7.4-8.4	<2 <4	Low Low	0.15 0.17	5	2	.5-1
Pavillion	0-3	20-30	0.6-2.0	0.14-0.16	7.4-9.0	<4	Moderate	0.28	5	5	
	3-32 32	20-30	0.6-2.0	0.14-0.16	7.4-9.0	<4	Moderate	0.37			
Persayo	0-5	18-27	0.6-2.0	0.15-0.17	8.5-9.0	<8	Moderate	0.37	1	4L	.5-1
	0-5	20-27	0.6-2.0	0.08-0.10	8.5-9.0	<8	Low	0.10	1	8	.5-1
	0-5	27-35	0.2-0.6	0.09-0.11	8.5-9.0	<8	Low	0.10	1	8	.5-1
	5-12 12	20-35	0.2-0.6	0.16-0.18	8.5-9.0	<8	Moderate	0.49			
Preatorson	0-2	5-12	2.0-6.0	0.07-0.11	7.4-8.4	---	Low	0.15	1	8	<1
	0-2	10-20	0.6-2.0	0.09-0.13	7.4-8.4	---	Low	0.15	1	8	<1
	0-2	10-20	0.6-2.0	0.10-0.14	7.4-8.4	---	Low	0.15	1	8	<1
	2-11	8-35	0.2-0.6	0.03-0.05	7.4-8.4	---	Low	0.05			
Sharland	11-20	8-35	0.2-0.6	0.04-0.06	7.4-8.4	---	Low	0.15			
	20-60	0-5	6.0-20	0.02-0.03	7.9-8.4	<4	Low	0.02			
	0-12	20-26	0.6-2.0	0.14-0.16	7.4-8.4	2-4	Moderate	0.28	1	5	<.5
	0-12	27-32	0.6-2.0	0.19-0.21	7.4-8.4	2-4	Moderate	0.32	1	4L	<.3
	0-12	20-30	0.6-2.0	0.11-0.13	7.4-8.4	2-4	Moderate	0.10	1	6	<.3
	12-60	0-5	<20	0.03-0.05	7.9-8.4	2-4	Low	0.02			

Table C-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Shingle	0-4	18-27	0.6-2.0	0.16-0.18	7.4-9.0	<2	Low	0.32	2	5	1-3
	0-4	10-18	0.6-2.0	0.13-0.15	7.4-9.0	<2	Low	0.32	2	3	1-2
	0-4	27-35	0.6-2.0	0.19-0.21	7.4-9.0	<2	Moderate	0.32	2	6	1-3
	4-15 15	20-35 -----	0.6-2.0 -----	0.16-0.21 -----	7.4-9.0 -----	<2 -----	Moderate -----	0.49 -----	-----	-----	-----
Shoshone	0-4	10-20	0.6-2.0	0.14-0.17	7.4-8.4	<4	Low	0.32	2	5	<1
	0-4	4-9	6.0-20	0.07-0.09	7.4-8.4	<4	Low	0.10	2	2	<1
	0-4	10-20	2.0-6.0	0.11-0.13	7.4-8.4	<4	Low	0.20	2	3	<1
	4-30 30-60	6-18 0-5	2.0-6.0 >6.0	0.09-0.12 0.02-0.04	7.4-8.4 7.4-8.4	<4 -----	Low -----	0.37 0.03	-----	-----	-----
Silvertip	0-4	16-22	0.6-2.0	0.14-0.18	7.4-8.4	<2	Low	0.37	5	5	1-2
	4-11	20-25	0.6-2.0	0.16-0.18	7.9-9.0	<2	Low	0.35	-----	-----	-----
	11-40	18-35	0.2-2.0	0.14-0.21	8.5-9.6	2-4	Moderate	0.28	-----	-----	-----
	40-60	18-35	0.6-6.0	0.10-0.16	7.9-9.0	2-8	Moderate	0.28	-----	-----	-----
Spomer	0-3	8-23	.6-2	0.12-0.14	7.4-7.8	<2	Low	0.28	5	3	1-2
	3-27	18-30	.2-.6	0.17-0.20	7.4-8.4	2-4	Moderate	0.32	-----	-----	-----
	27-53	10-25	2-6	0.11-0.12	7.9-9.0	2-4	Low	0.20	-----	-----	-----
	53-66	5-15	6-20	0.03-0.08	7.9-9.0	2-4	Low	0.10	-----	-----	-----
Stutzman	0-4	35-50	0.06-0.2	0.19-0.21	7.4-9.0	<2	High	0.37	5	5	<1
	4-60	35-50	0.06-0.2	0.19-0.21	7.4-9.0	<2	High	0.37	-----	-----	-----
Tassel	0-8	2-8	6.0-20	0.10-0.12	7.4-8.4	-----	Low	0.17	2	2	.5-1
	0-8	5-12	2.0-6.0	0.16-0.18	7.4-8.4	-----	Low	0.24	2	3	.5-1
	0-8	12-18	2.0-6.0	0.11-0.13	7.4-8.4	-----	Low	0.24	2	3	.5-1
	8-15 15-60	5-12 -----	2.0-6.0 -----	0.15-0.17 -----	7.4-8.4 -----	-----	Low -----	0.24 -----	-----	-----	-----
Terry	0-5	10-20	2.0-6.0	0.13-0.15	6.6-7.8	-----	Low	0.20	2	3	.5-2
	0-5	5-10	2.0-6.0	0.10-0.13	6.6-7.8	-----	Low	0.17	2	2	.5-2
	5-14	10-18	2.0-6.0	0.13-0.15	6.6-7.8	-----	Low	0.20	-----	-----	-----
	14-26 26	5-17 -----	2.0-6.0 -----	0.13-0.15 -----	7.9-8.4 -----	<2 -----	Low -----	0.20 -----	-----	-----	-----
Theda lund	0-4	15-20	0.6-2.0	0.14-0.17	7.4-8.4	-----	Low	0.37	2	5	<1
	0-4	27-35	0.2-0.6	0.16-0.18	7.4-8.4	-----	Moderate	0.32	2	6	<1
	4-30 30	19-35 -----	0.6-2.0 -----	0.16-0.18 -----	7.9-8.4 -----	<8 -----	Moderate -----	0.37 -----	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Torchlight	0-4	30-40	0.06-0.2	0.08-0.10	<9.0	8-16	High	0.43	5	4	.5-1
	0-4	40-50	0.06-0.2	0.08-0.10	<9.0	8-16	High	0.32	5	4	.5-1
	4-60	35-50	0.06-0.2	0.08-0.10	<9.0	8-16	High	0.49	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Uffens	0-1	15-20	0.2-0.6	0.15-0.17	>8.4	>8	Low	0.49	1	4L	.5-1
	0-1	10-15	0.6-2.0	0.09-0.12	>8.4	>8	Low	0.43	1	3	.5-1
	1-10	20-30	0.2-0.6	0.15-0.17	>8.4	>8	Moderate	0.24	-----	-----	-----
	10-54 54-57 57-70	20-30 40-45 0-5	0.2-0.6 0.2-0.6 6.0-20	0.07-0.11 0.09-0.11 0.02-0.04	>8.4 >8.4 >8.4	>16 >16 >16	Moderate Moderate Low	0.24 0.24 0.10	-----	-----	-----

Table C-6. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodi- bility Group	Organic Matter (Percent)
								K	T		
Ulm	0-9	20-25	0.6-2.0	0.16-0.18	6.6-7.8	----	Low	0.32	5	6	1-3
	0-9	28-35	0.6-2.0	0.16-0.18	6.6-7.8	----	Moderate	0.32	5	6	1-3
	9-26	35-50	0.06-2.0	0.19-0.21	6.6-8.4	<2	High	0.37			
	26-60	30-42	0.6-2.0	0.19-0.21	7.9-9.0	<2	Moderate	0.37			
	60-70	25-35	0.6-2.0	0.12-0.15	7.9-9.0	<2	Moderate	0.37			
Vanda	0-4	40-60	<0.06	0.08-0.12	>7.8	<8	High	0.37	5	4	.5-2
	0-4	30-40	0.06-0.2	0.10-0.14	>7.8	<8	High	0.43	5	4	.5-2
	4-60	35-60	<0.06	0.08-0.12	>7.8	<8	High	0.37			
Wallson	0-4	5-10	6.0-20	0.06-0.11	6.6-7.8	----	Low	0.17	5	2	.3-.5
	0-4	5-12	2.0-6.0	0.11-0.13	6.6-7.8	----	Low	0.28	5	3	.5-.8
	4-15	10-18	2.0-6.0	0.12-0.14	6.6-8.4	2-4	Low	0.24			
	15-60	5-12	2.0-6.0	0.11-0.13	7.4-9.0	2-4	Low	0.28			
	60-70	3-8	6.0-20	0.05-0.07	7.4-9.0	2-4	Low	0.24			
Willwood	0-5	2-8	<6.0	0.04-0.06	7.4-8.4	<4	Low	0.05	1	8	<1
	0-5	5-15	2.0-6.0	0.09-0.11	7.4-8.4	<4	Low	0.10	1	5	<1
	0-5	0-5	<6.0	0.03-0.05	7.4-8.4	<4	Low	0.02	1	8	<1
	5-60	2-8	<6.0	0.03-0.05	7.4-8.4	<4	Low	0.02			
Willwood Variant	0-30		2-6	0.14	7.4-8.4	2-4	Low	0.20	2	3	
	30-60		6-20	0.03	7.4-8.4	<2	Low	0	---	8	
Winnett	0-6	20-27	0.2-0.6	0.18-0.21	6.6-7.3	----	Moderate	0.49	2	6	2-3
	0-6	28-35	0.2-0.6	0.16-0.18	6.6-7.3	----	Moderate	0.43	2	6	2-3
	0-6	15-20	2.0-6.0	0.13-0.16	6.6-7.3	----	Low	0.37	2	3	2-3
	6-16	35-50	<0.06	0.11-0.14	7.9-8.4	<4	High	0.37			
	16-30	30-40	0.2-0.6	0.05-0.16	<8.4	8-16	Moderate	0.43			
Worland	30	----	----	----	----	----	----	----			
	0-30		2.0-6.0	0.11-0.13	7.9-8.4	2-4	Low	0.20	3	3	
Worland Variant	30	----	----	----	----	----	----	----			
	0-9	4-15	2.0-6.0	0.11-0.13	7.4-8.4	<2	Low	0.28	2	3	.5-2
	9-35	7-18	2.0-6.0	0.11-0.13	7.4-8.4	<2	Low	0.32			
Youngston	35	----	----	----	----	----	----	----			
	0-4	27-35	0.2-0.6	0.19-0.21	7.4-8.4	<2	Moderate	0.37	5	6	<1
	0-4	15-25	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	0.32	5	5	<1
	0-4	27-35	0.2-0.6	0.19-0.21	7.4-8.4	<2	Moderate	0.37	5	6	<1
	4-60	18-30	0.2-0.6	0.19-0.21	7.9-9.0	2-8	Moderate	0.37			
Zigweid	0-6	18-27	0.6-2.0	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	6	1-2
	0-6	27-35	0.6-2.0	0.18-0.21	7.4-8.4	<2	Moderate	0.32	5	6	1-2
	0-6	5-15	2.0-6.0	0.13-0.15	7.4-8.4	<2	Low	0.32	5	3	1-2
	6-60	18-35	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	0.43			

a = Source: Data from Soil Conservation Service series descriptions (Form 5). Data have not been compiled for soil units.

Table C-7. Physical and Chemical Properties of Washakie County Soils. (a)

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
2 Apron	0-3 3-60	5-18 5-18	2.0-6.0 2.0-6.0	0.11-0.13 0.11-0.13	7.4-9.0 7.4-9.0	<2 <2	Low Low	0.20 0.20	5	3	.5-1
3, 4 Apron	0-3 3-60	5-18 5-18	2.0-6.0 2.0-6.0	0.11-0.13 0.11-0.13	7.4-9.0 7.9-9.0	<2 <2	Low Low	0.20 0.20	5	3	.5-1
Worland	0-3 3-36 36	10-18 10-18 ----	2.0-6.0 2.0-6.0 ----	0.11-0.13 0.11-0.13 ----	7.4-9.0 7.4-9.0 ----	<2 <4 ----	Low Low ----	0.20 0.24 ----	3	3	<1
7 Baroid	0-7 7-60	5-12 3-5	6.0-20 6.0-20	0.06-0.08 0.06-0.08	7.9-9.0 7.9-9.0	<8 <8	Low Low	0.28 0.28	5	3	<.5
8 Baroid	0-7 7-60	5-12 3-5	6.0-20 6.0-20	0.06-0.08 0.06-0.08	7.9-9.0 7.9-9.0	<8 <8	Low Low	0.28 0.28	5	3	<.5
Las Animas Variant	0-2 2-60	12-18 9-18	2.0-6.0 2.0-6.0	0.13-0.15 0.11-0.13	8.5-9.0 7.9-9.0	2-8 2-8	Low Low	0.20 0.20	5	3	1-2
14 Clifterson	0-5 5-60	18-27 18-35	2.0-6.0 0.6-6.0	0.09-0.13 0.04-0.09	7.9-9.0 7.9-9.0	<2 <2	Low Low	2.28 0.24	5	5	.5-1
Persayo	0-13 13	27-35 ----	0.2-0.6 ----	0.15-0.17 ----	7.0-9.0 ----	<8 ----	Moderate ----	0.37 ----	1	4L	.5-1
Lostwells	0-3 3-60	20-30 20-30	0.6-2.0 0.6-2.0	0.11-0.16 0.11-0.16	7.4-9.0 7.9-9.0	<4 <4	Moderate Moderate	0.32 0.32	5	5	<1
16 Dobent	0-7 7-60	15-30 18-27	0.6-2.0 0.6-2.0	0.16-0.18 0.16-0.18	7.4-9.0 7.4-9.0	4-8 4-8	Low Low	0.28 0.24		4L	1-2
18 Finnerty	0-9 9-60	40-60 40-80	<0.06 <0.06	0.10-0.12 0.15-0.17	8.5-9.0 7.9-9.0	8-16 2-8	High High	0.43 0.43	5	4	<1
19 Fluvaguents											
20 Fluvents											
21 Forkwood	0-2 2-19 19-60	12-20 18-30 20-35	0.6-2.0 0.6-2.0 0.6-2.0	0.15-0.17 0.19-0.21 0.16-0.18	6.8-8.4 6.8-8.4 7.9-9.0	2-4 2-4 2-4	Low Moderate Low	0.28 0.32 0.28		3	1-2

Table C-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Haverdard	0-6 6-60	18-27 20-35	0.6-2.0 0.6-2.0	0.16-0.18 0.16-0.18	7.4-9.0 7.9-9.0	2-8 2-4	Low Low	0.28 0.28	5	4L	1-2
Arvada	0-3 3-17 17-60	15-27 35-45 28-45	0.6-2.0 <0.06 0.06-0.2	0.16-0.18 0.07-0.09 0.09-0.11	6.6-9.0 >7.8 >7.8	<4 <4 <8	Low High High	0.32 0.32 0.32	5	6	.5-1
22 Forkwood	0-2 2-19 19-60	12-20 18-30 20-35	0.6-2.0 0.6-2.0 0.6-2.0	0.15-0.17 0.19-0.21 0.16-0.18	6.6-8.4 6.6-8.4 7.9-9.0	2-4 2-4 2-4	Low Moderate Low	0.28 0.32 0.28	5	3	1-2
Kishona	0-4 4-60	18-27 20-35	0.6-2.0 0.6-2.0	0.16-0.18 0.10-0.17	7.4-8.4 7.9-9.0	2-4 2-8	Low Moderate	0.28 0.32	5	4L	.5-1
Haverdard	0-6 6-60	18-27 20-35	0.6-2.0 0.6-2.0	0.16-0.18 0.16-0.18	7.4-9.0 7.4-9.0	2-8 2-4	Low Low	0.28 0.28	5	4L	1-2
23 Fruita	0-4 4-24 24-60	15-20 20-30 18-27	2.0-6.0 0.6-2.0 0.6-2.0	0.12-0.15 0.15-0.17 0.13-0.17	7.4-7.8 7.4-8.4 7.9-9.0	<2 <2 <2	Low Low Low	0.20 0.24 0.24	5	3	.5-1
Neiber	0-8 8-21 21	8-18 20-35 ----	2.0-6.0 0.6-2.0 ----	0.13-0.15 0.14-0.16 ----	6.6-7.8 7.9-8.4 ----	2-4 2-4 ----	Low Moderate ----	0.20 0.24 ----	3		.5-1
Muff	0-5 5-30 30	5-15 20-30 ----	0.6-2.0 0.6-2.0 ----	0.13-0.15 0.14-0.16 ----	7.4-8.4 >8.4 ----	2-4 4-8 ----	Low Moderate ----	0.20 0.24 ----	3	3	<1
25 Glenton	0-7 7-60	5-18 ----	2.0-6.0 2.0-6.0	0.13-0.15 0.13-0.15	7.9-9.0 7.9-9.0	2-4 2-4	Low Low	----- -----	----- -----		
26 Glenton	0-7 7-60	5-18 5-18	2.6-6.0 2.6-6.0	0.09-0.11 0.09-0.11	>8.4 >8.4	8-16 4-8	Low Low	0.20 0.20	5	3	.4-1
Baroid	0-7 7-60	5-15 5-15	2.0-6.0 6.0-20	0.15-0.17 0.08-0.11	8.5-9.0 7.9-9.0	8-16 8-16	Low Low	0.10 0.10	5	3	<1
29 Greybull	0-7 7-23 23	27-35 25-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ----	0.37 0.43 ----	3	4L	.5-1
Persayo	0-13 13	27-35 ----	0.2-0.6 ----	0.15-0.17 ----	7.9-9.0 ----	<8 ----	Moderate ----	0.37 ----	1	4L	.5-1
30 Greybull	0-4 4-23 23	27-35 25-35 ----	0.2-0.6 0.2-0.6 ----	0.19-0.21 0.19-0.21 ----	7.9-9.0 7.9-9.0 ----	2-4 2-4 ----	Moderate Moderate ----	0.37 0.43 ----	3	4L	.5-1

Table C-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
Persayo	0-13 13	27-35 ----	0.2-0.6 ----	0.15-0.17 ----	7.9-9.0 ----	<8 ----	Moderate ----	0.37 ----	1	4L	.5-1
³¹ Griffy	0-3 3-14 14-60	5-18 25-35 8-20	2.0-6.0 0.6-2.0 2.0-6.0	0.11-0.13 0.14-0.16 0.10-0.12	7.4-7.8 7.4-8.4 7.9-9.0	<4 <4 <4	Low Moderate Low	0.24 0.28 0.20	5	3	.5-1
³² Griffy	0-8 8-14 14-60	20-35 25-35 8-20	0.6-2.0 0.6-2.0 2.0-6.0	0.16-0.18 0.14-0.16 0.10-0.12	7.4-7.8 7.4-8.4 7.9-9.0	<4 <4 <4	Low Moderate Low	0.32 0.28 0.20	5	6	.5-1
³³ Hoot	0-5 5-16 16	10-20 18-30 ----	2.0-6.0 0.2-0.6 ----	0.10-0.12 0.05-0.09 ----	7.4-7.8 7.4-8.4 ----	<2 <2 ----	Low Low ----	0.24 0.17 ----	1	3	
Rock outcrop											
Persayo	0-13 13	27-35 ----	0.2-0.6 ----	0.15-0.17 ----	7.9-9.0 ----	<8 ----	Moderate ----	0.37 ----	1	4L	.5-1
³⁴ Kishona	0-4 4-60	18-27 20-35	0.6-2.0 0.6-2.0	0.16-0.18 0.10-0.17	7.4-8.4 7.9-9.0	2-4 2-4	Low Moderate	0.28 0.32	5	4L	.5-1
Shingle	0-4 4-17	27-35 20-35	0.6-2.0 0.6-2.0	0.19-0.21 0.16-0.21	7.4-9.0 7.4-9.0	<2 <2	Moderate Moderate	0.32 0.49	2	4L	<1
³⁵ Kishona	0-3 3-60	27-35 20-35	0.2-0.6 0.2-0.6	0.16-0.18 0.05-0.12	>9.0 >9.0	4-8 4-16	Moderate Moderate	0.37 0.37	5	4L	.5-1
Shingle	0-4 4-17 17	27-35 20-35 ----	0.6-2.0 0.6-2.0 ----	0.19-0.21 0.16-0.21 ----	7.4-9.0 7.4-9.0 ----	<2 <2 ----	Moderate Moderate ----	0.32 0.49 ----	2 ----	4L ----	<1 ----
Rock outcrop											
^{40, 41} Lostwells	0-8 8-60	27-35 20-30	0.2-0.6 0.6-2.0	0.19-0.21 0.11-0.16	7.9-9.0 7.9-9.0	<4 <4	Moderate Moderate	0.32 0.32	5	4L	<1
⁴² Lostwells	0-3 3-60	20-30 20-30	0.6-2.0 0.6-2.0	0.11-0.16 0.11-0.16	7.4-9.0 7.9-9.0	<4 <4	Moderate Moderate	0.32 0.32	5	5	<1
Youngston	0-3 3-60	27-35 18-30	0.2-0.6 0.2-0.6	0.19-0.21 0.19-0.21	7.4-8.4 7.9-9.0	<2 2-8	Moderate Moderate	0.37 0.37	5	4L	<1
Uffens	0-1 1-22 22-60	5-25 25-35 20-30	0.6-2.0 0.2-0.6 0.2-0.6	0.13-0.16 0.05-0.10 0.05-0.10	>7.3 >8.4 >8.4	4-8 >16 >16	Low Moderate Moderate	0.28 0.32 0.28	1	6	.5-1

Table C-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
43 Lostwells	0-8 8-60	27-35 20-30	0.6-2.0 0.6-2.0	0.19-0.21 0.14-0.16	>9.0 8.5-9.0	8-16 2-8	Moderate Moderate	0.32 0.24	5	4L	.1
Youngston	0-8 8-60	27-35 18-35	0.2-0.6 0.2-0.6	0.19-0.21 0.19-0.21	>8.4 >8.4	8-16 <8	Moderate Moderate	0.37 0.37	5	4L	
Lostwells	0-3 3-60	20-30 20-30	0.6-2.0 0.6-2.0	0.11-0.16 0.11-0.16	7.4-9.0 7.9-9.0	<4 <4	Moderate Moderate	0.32 0.32	5	5	<1
46 Muff	0-5 5-30 30	5-15 20-30 ----	0.6-2.0 0.06-0.2 ----	0.13-0.15 0.14-0.16 ----	7.4-8.4 >8.4 ----	2-4 4-8 ----	Low Moderate ----	0.20 0.24 ----	3	3	<1
Neiber	0-8 8-21 21	8-18 20-35 ----	2.0-6.0 0.6-2.0 ----	0.13-0.15 0.14-0.16 ----	6.6-7.8 7.9-8.4 ----	2-4 2-4 ----	Low Moderate ----	0.20 0.24 ----	3	3	.5-1
56 Persayo	0-13 13	27-35 ----	0.2-0.6 ----	0.15-0.17 ----	7.9-9.0 ----	<8 ----	Moderate ----	0.37 ----	1	4L	.5-1
Muff	0-5 5-30 30	5-15 20-30 ----	0.6-2.0 0.06-0.2 ----	0.13-0.15 0.14-0.16 ----	7.4-8.4 >8.4 ----	2-4 4-8 ----	Low Moderate ----	0.20 0.24 ----	3	3	<1
Rock outcrop											
57 Persayo	0-13 13	27-35 ----	0.2-0.6 ----	0.15-0.17 ----	7.9-9.0 ----	<8 ----	Moderate ----	0.37 ----	1	4L	.5-1
Rock outcrop											
60 Riverwash											
61 Rock outcrop											
Persayo	0-13 13	27-35 ----	0.2-0.6 ----	0.15-0.17 ----	7.9-9.0 ----	<8 ----	Moderate ----	0.37 ----	1	4L	.5-1
66 Stutzman	0-8 8-60	35-50 35-50	0.06-0.2 0.06-0.2	0.19-0.21 0.19-0.21	7.4-9.0 7.4-9.0	<2 <2	High High	0.37 0.37	5	4	<1
67 Stutzman	0-8 8-60	27-40 27-45	0.06-0.2 0.06-0.2	0.19-0.21 0.19-0.21	>8.4 7.9-9.0	8-16 <4	High High	0.37 0.37	5	4	<1

Table C-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CM)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
70 Uffens	0-1 1-5 5-60	15-25 25-35 20-30	0.6-2.0 0.2-0.6 0.2-0.6	0.13-0.16 0.05-0.10 0.05-0.10	>7.3 >8.4 >8.4	4-8 >16 >16	Low Moderate Moderate	0.28 0.32 0.28	1	6	.5-1
Persayo	0-13 13	27-35 -----	0.2-0.6 -----	0.15-0.17 -----	7.9-9.0 -----	<8 -----	Moderate -----	0.37 -----	1	4L	.5-1
Greybull	0-4 4-23 23	27-35 25-35 -----	0.2-0.6 0.2-0.6 -----	0.19-0.21 0.19-0.21 -----	7.9-9.0 7.9-9.0 -----	2-4 2-4 -----	Moderate Moderate -----	0.37 0.43 -----	3	4L	.5-1
71 Uffens	0-1 1-5 5-60	15-25 25-35 20-30	0.6-2.0 0.2-0.6 0.2-0.6	0.13-0.16 0.05-0.10 0.05-0.10	>7.3 >8.4 >8.4	4-8 >16 >16	Low Moderate Moderate	0.28 0.32 0.28	1	6	.5-1
Rairdent	0-2 2-17 17-60	10-18 30-40 3-7	2.0-0.6 0.6-2.0 6.0-20	0.13-0.15 0.10-0.15 0.02-0.04	7.4-8.4 7.4-9.0 7.4-8.4	2-4 2-8 2-8	Low Moderate Low	0.32 0.32 0.17	5	3	.5-1
Grippy	0-3 3-14 14-60	5-18 25-35 8-20	2.0-6.0 0.6-2.0 2.0-6.0	0.11-0.13 0.14-0.16 0.10-0.12	7.4-7.8 7.4-8.4 7.9-9.0	<4 <4 <4	Low Moderate Low	0.32 0.28 0.20	5	3	.5-1
73 Wallson	0-4 4-60	0-10 10-18	>6.0 2.0-6.0	0.06-0.11 0.11-0.14	6.6-7.3 6.9-9.0	<2 2-4	Low Low	0.17 0.28	5	2	----
74 Wallson	0-8 8-60	10-18 10-18	2.0-6.0 2.0-6.0	0.11-0.14 0.11-0.14	6.6-7.3 6.9-9.0	<2 2-4	Low Low	0.28 0.28	5	3	----
80 Worland	0-3 3-36 36	10-18 10-18 -----	2.0-6.0 2.0-6.0 -----	0.11-0.13 0.11-0.13 -----	7.4-9.0 7.4-9.0 -----	<2 <4 -----	Low Low -----	0.20 0.24 -----	3	3	<1
Persayo	0-13 13	27-35 -----	0.2-0.6 -----	0.15-0.17 -----	7.0-9.0 -----	<8 -----	Moderate -----	0.37 -----	1	4L	.5-1
Apron	0-60	5-18	2.0-6.0	0.11-0.13	7.4-9.0	<2	Low	0.20	5	3	.5-1
81 Youngston	0-9 9-60	27-35 18-35	0.6-2.0 0.6-2.0	0.19-0.21 0.16-0.18	7.9-8.4 7.9-9.0	2-4 2-4	Moderate Moderate	----- -----	----	4L	<1
82 Youngston	0-9 9-60	27-35 18-30	0.2-0.6 0.2-0.6	0.19-0.21 0.19-0.21	7.9-8.4 7.9-9.0	<2 2-8	Moderate Moderate	0.37 0.37	5	4L	<1

Table C-7. Continued.

Soil Name and Map Symbol	Depth (Inch)	Clay (Percent)	Permeability	Available Water Capacity (Inch/Hour)	Soil Reaction (Inch/Inch)	Salinity (pH)	Shrink Swell Potential (MMHOS/CW)	Erosion Factors		Wind Erodibility Group	Organic Matter (Percent)
								K	T		
83 Youngston	0-3	27-35	0.2-0.6	0.19-0.21	7.4-8.4	<2	Moderate	0.37	5	4L	<1
	3-60	18-30	0.2-0.6	0.19-0.21	7.9-9.0	2-8	Moderate	0.37			
Glenton	0-3	5-18	2.0-6.0	0.13-0.15	7.9-9.0	2-4	Low	---	---	3	.4-1
	3-60	---	2.0-6.0	0.13-0.15	7.9-9.0	2-4	Low	---			
Lostwells	0-4	20-30	0.6-2.0	0.11-0.16	7.4-9.0	<4	Moderate	0.32	5	5	<1
	4-60	20-30	0.6-2.0	0.11-0.16	7.9-9.0	<4	Moderate	0.32			
84 Youngston	0-4	27-35	0.2-0.6	0.19-0.21	7.4-8.4	<2	Moderate	0.37	5	4L	<1
	4-60	18-30	0.2-0.6	0.19-0.21	7.9-9.0	2-8	Moderate	0.37			
Uffens	0-1	15-25	0.6-2.0	0.13-0.16	>7.3	4-8	Low	0.28	1	6	.5-1
	1-5	25-35	0.2-0.6	0.05-0.10	>8.4	>16	Moderate	0.32			
Lostwells	5-60	20-30	0.2-0.6	0.05-0.10	>7.9	>16	Moderate	0.28			
	0-3	20-30	0.6-2.0	0.11-0.16	7.4-9.0	<4	Moderate	0.32	5	5	<1
	3-60	20-30	0.6-2.0	0.11-0.16	7.9-9.0	<4	Moderate	0.32			

a = Source: Soil Survey of Washakie County, Wyoming.

Source: See Glossary, Table A, for a description of properties.

Appendix D. Soil and Water Features of Soils

Appendix D. Soil and Water Properties of Soils.

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Table D. Glossary of Terms Used in Tables of Soil and Water Properties of Soils. (a)

Term	Definition
Hydrologic Soil Group:	Estimate runoff from precipitation with Group A having high infiltration and water transmission, and Group D having slow infiltration and water transmission.
Depth to Bedrock:	Depth to bedrock is measured in inches. If the rock is soft, excavations can be made with trenching machines, backhoes or small rippers. If hard, blasting or special equipment is needed.
Risk of Corrosion:	Indicates potential soil-induced electrochemical or chemical action that dissolves or weakens uncoated electrical conductivity. Concrete corrosion is based mainly on soil sulfate and sodium content, texture, moisture content and acidity.

a - Source: Soil Conservation Service. 1983. Soil Survey of Washakie County, Wyoming.

03/21/88

Table D-1. Soil and Water Features of Carbon County, Montana, Soils. (a)

Soil Name and Map Symbol	Hydro-logic group	Flooding		High Water Table		Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months		Uncoated Steel	Concrete
Colby	B	None	---	---	>6.0	---	---	Low	Low	Low
Haverson	B	Rare	---	---	>6.0	---	---	Low	High	Low
Heldt	C	None	---	---	>6.0	---	---	Low	High	Low
Kyle	D	None	---	---	>6.0	---	---	Low	High	Moderate
Lismas	D	None	---	---	>6.0	---	---	Low	High	Moderate
Midway	D	None	---	---	>6.0	---	---	Low	High	Low
Tonra	B	None	---	---	>6.0	---	---	Low	High	Moderate
Torchlight	C	None	---	---	>6.0	---	---	Low	High	High
Travessilla	D	None	---	---	>6.0	---	---	Low	High	Low

a = Source: Soil Survey of Carbon County Area, Montana.
Source: See Glossary, Table A, for a description of properties.

Table D-2. Soil and Water Features of Fremont County Soils. (a)

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Fel1 Ryan Park	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F2d11 Bosler	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Ryan Park	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F3d11 Bosler	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Rock River	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F2g11 Emblem	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Cliffsand	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Rairdent	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F2n11 Cliffsand	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Moderate
F2a32 Dahlquist	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Rock River	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F2f72 Pesmore	C	None	---	---	>6.0	---	---	20-40	Hard	Low	High	Low
Rock outcrop												
Asholler	D	None	---	---	>6.0	---	---	10-20	Hard	Moderate	Moderate	Low
F2h72 Pensore	D	None	---	---	>6.0	---	---	10-20	Hard	Moderate	Moderate	Low
Rock outcrop												
F2j72 Rallod	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Rock outcrop												
Seaverson	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
F90 Zeomont	A	None	---	---	>6.0	---	---	>60	---	Low	High	Low

Table D-2. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
F101 Badland												
Seaverson	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Low
Blazon	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
F102 Badland												
Birdsley	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Low
F105 Rock outcrop												
Blazon	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
F107 Rock outcrop												
Blackhall	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
F201 Harve	B	Rare	----	----	>6.0	----	----	>60	----	Moderate	High	Low
Forelle	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Glendive	B	Rare	----	----	>6.0	----	----	>60	----	Moderate	High	Low
F203 Venapass	D	Occasional	Brief	Apr.-Jul.	0.5-3.5	Apparent	Jan.-Dec.	>60	----	High	Moderate	Low
Silas	B	Rare	----	----	40-60	Apparent	Apr.-Jul.	>60	----	Moderate	High	Low
F205 Iceslew	C	Occasional	Long	Apr.-Aug.	1.5-3.5	Apparent	Jan.-Dec.	>60	----	High	High	Moderate
Countryman	C	Frequent	Brief	Jan.-Jul.	1.5-3.5	Apparent	May.-Sept	>60	----	Moderate	High	Low
F206 Youngston	B	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
F206F Youngston	B	Occasional	Brief	Feb.-Aug.	>6.0	----	----	>60	----	Low	High	Moderate
Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Apron	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
F209 Harve	B	Rare	----	----	>6.0	----	----	>60	----	Moderate	High	Low

Table D-2. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Absher	D	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Forelle	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F217 Sandbranch	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Ryan Park Variant	B	None	---	---	>6.0	---	---	40-60	Soft	Low	High	Low
Poposhia	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
F218 Griffy	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Saddle	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Wallson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F227 Brownsto	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Decross Variant	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Brownsto	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F230 Thermopolis	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	High
Sinkson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F231 Crago	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Pensore	D	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F234 Sinkson	B	None	---	---	>6.0	---	---	10-20	Hard	Moderate	Moderate	Low
Almy	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Thermopolis	D	None	---	---	>6.0	---	---	>60	Soft	Low	High	High
F237 Uffens	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Muff	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Moderate
Frisite	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
F242 Apron	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Lostwells	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low

Table D-2. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
F248 Frisite	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
Youngston	B	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
F267 Almy	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Monbutte	C	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Rallod	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
F270 Poposhia	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Blazon	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
Carmody	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
F271 Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Moderate
Rock outcrop												
F272 Blackhall	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
Carmody	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
F277 +/- Diamondville	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Forelle	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F289 Rockinchair	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Rock outcrop												
Sinkson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F291 Cushool	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Rock River	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F293 Cragosen	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Rock outcrop												
Carmody	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low

Table D-2. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
F294 Forelle	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Poposhia	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
F297 Birdsley	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Mudray	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Moderate
F298 Blazon	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
Rock outcrop												
Carmody	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
F301 Binton	C	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Youngston	B	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
F306 Youngston	B	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Effington	C	None	---	---	>6.0	---	---	>60	---	Low	High	High
F309 Havre	B	Rare	---	---	>6.0	---	---	>60	---	Moderate	High	Low
Havre Variant	D	Rare	---	---	1.0-3.5	Apparent	Apr.-Sep.	>60	---	High	High	High
Elkol	D	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
F311 Ryan Park	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Carmody	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
F340 Tisworth	C	None	---	---	>6.0	---	---	>60	---	Low	High	High
Ryan Park	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Countryman	C	Occasional	Brief	Jan.-Jul	1.5-3.5	Apparent	May-Sept.	>60	---	Moderate	High	Low
F342 Apron	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Wallson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Worland	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low

Table D-2. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
F348 Frisite	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
Emblem	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F372 Cragosen	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Carmody	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Blazon	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
F375 Worland	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Oceanet	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Moderate
F390 Ryark	A	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Zeomont	A	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F393 Blackhall	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
Rock outcrop												
F406 Youngston	B	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Moderate
F409 Absher	D	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Elko 1	D	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
F469 Absher	D	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Poposhia	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
Sinkson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
F493 Cragosen	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Bosler	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Cushool	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low

Table D-2. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
F507 Quander	B	None	----	----	>6.0	----	----	>60	----	Moderate	High	Low
Yauga	B	None	----	----	>6.0	----	----	>60	----	Moderate	Moderate	Low
Onason	D	None	----	----	>6.0	----	----	10-20	Soft	Low	Moderate	Low
F607 Youga	B	None	----	----	>6.0	----	----	>60	----	Moderate	Moderate	Low
Quander	B	None	----	----	>6.0	----	----	>60	----	Moderate	High	Low
F672 Bluerim	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
Onason	D	None	----	----	>6.0	----	----	10-20	Soft	Low	Moderate	Low
F700,70 Burnette	A	None	----	----	>6.0	----	----	>60	----	Moderate	High	Low
F995, 584 Ryark	A	None	----	----	>6.0	----	----	>60	----	Low	High	Low
FMS	DUMPS, MINE	None	----	----	>6.0	----	----	>60	----	Low	High	Low

a = Source: Data from draft Fremont County, Eastern Part Soil Survey.
Source: See Glossary, Table A, for a description of properties.

Table D-3. Soil and Water Features of Hot Springs County Soils. (a)

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
HS47 Petrie	D	None	---	---	>6.0	---	---					
Cadoma	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Epsie	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	High
HS67 Cadoma	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Arvada	D	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Worika	D	None	---	---	>6.0	---	---					
HS68 Cadoma	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Epsie	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	High
HS71 Cadoma	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Shingle	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
HS72 Absted	D	None	---	---	>6.0	---	---					
Arvada	D	None	---	---	>6.0	---	---	>60	---	Low	High	Low
HS73 Absted	D	None	---	---	>6.0	---	---					
Stoneham	D	None	---	---	>6.0	---	---					
Ulm	C	None	---	---	>6.0	---	---	>60	---	Low	High	Low
HS75 Arvada	D	None	---	---	>6.0	---	---					
Kim alkali	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
HS91C Neville (b)	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
HS102 Rock Outcrop												
HS110 Shingle	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
Tassel	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low

Table D-3. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
HS111 Rock outcrop												
Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Tassel	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
HS190 Epsie	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	High
Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
HS243 Kim alkali	B	None	----	----	>6.0	----	----					
Kim loam	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
HS244 Kim alkali	B	None	----	----	>6.0	----	----					
HS246 Orella	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Low
Epsie	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	High
Rock outcrop												
HS247 Torriorthents												
HS315 Persayo	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Moderate
Clifterson	B	None	----	----	>6.0	----	----					
HS322 Nihil	B	None	----	----	>6.0	----	----					
Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
HS324 Larimer	B	None	----	----	>6.0	----	----					
Nihil	B	None	----	----	>6.0	----	----					
HS325 Larimer	B	None	----	----	>6.0	----	----					
Stoneham	B	None	----	----	>6.0	----	----					
Nihil	B	None	----	----	>6.0	----	----					

Table D-3. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
HS345 Vona	B	None	----	----	>6.0	----	----					
Otero	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
HS360 Stoneham	B	None	----	----	>6.0	----	----					
Kim	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
HS371 Pavilion	B	None	----	----	>6.0	----	----	20-40	Rippable	Low		
Persayo	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Moderate
HS372 Tassel	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
Nelson	B	None	----	----	>6.0	----	----					
HS375 Bowbac	B	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
Olney	B	None	----	----	>6.0	----	----					
Arvada	D	None	----	----	>6.0	----	----	>60	----	Low	High	Low
HS382 Rock outcrop												
Tassel	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
HS383 Rock outcrop												
Tassel	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
Nelson	B	None	----	----	>6.0	----	----					
HS389 Spearfish	B	None	----	----	>6.0	----	----					
Neville	B	None	----	----	>6.0	----	----					
HS393 Olney	B	None	----	----	>6.0	----	----					
Bowbac	B	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
HS398 Tassel	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Low
Bowbac	B	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low

Table D-3. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Terry	B	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
HS410 Bondman	C	None	----	----	>6.0	----	----					
Worfa	D	None	----	----	>6.0	----	----					
Worf	D	None	----	----	>6.0	----	----					
HS411 Bondman	C	None	----	----	>6.0	----	----					
Rock outcrop												
Worf	D	None	----	----	>6.0	----	----					
HS426 Larim	A	None	----	----	>6.0	----	----	>60	----	Moderate	High	Moderate
Larimer	B	None	----	----	>6.0	----	----					
HS447 Travessilla	D	None	----	----	>6.0	----	----					
HS448 Torrifluents												
HS450 Torrifluents												
Fuivaquents	D	Occasional	Brief	Apr-Jun	0.5-3.5	Apparent	May-Sept	>60	----	High	High	High
HS490 Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Thedalund	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
HS572 Worland	B	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Moderate
Oceanet	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Low
HS601 Youngston	B	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
Uffens	D	None	----	----	>6.0	----	----	>60	----	Low	High	High
Glenton	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
HS602 Binton	C	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
Uffens	D	None	----	----	>6.0	----	----	>60	----	Low	High	High

Table D-3. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
HS604 Effington	D	None	----	----	>6.0	----	----	>60	----	Low	High	High
Effington Varia	D	None	----	----	>6.0	----	----					
HS645 Mudray	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	Moderate
Persayo	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Moderate
Effington Varia	D	None	----	----	>6.0	----	----					
HS671 Rock outcrop												
Persayo	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	Moderate
HS700 Stoneham	B	None	----	----	>6.0	----	----					
Cushman	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
HS702 Absted	D	None	----	----	>6.0	----	----					
Fort Collins	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
HS703 Fort Collins	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Cushman	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
HS705 Kim	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Theda lund	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
HS708 Renohill	C	None	----	----	>6.0	----	----					
Cushman	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
Worfka	D	None	----	----	>6.0	----	----					
HS709 Renohill	C	None	----	----	>6.0	----	----					
Cadoma	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Worfka	D	None	----	----	>6.0	----	----					
HS720 Blazon	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low

Table D-3. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Rock outcrop												
HS722 Blazon	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
HS723 Blazon	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Delphill	C	None	----	----	>6.0	----	----					
HS725 Blazon	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Diamondville	C	None	----	----	>6.0	----	----					
HS735 Patent	B	None	----	----	>6.0	----	----					
Forelle	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
HS736 Forelle	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Pinehill	B	None	----	----	>6.0	----	----					
HS749 Renohill	C	None	----	----	>6.0	----	----					
Worfka	D	None	----	----	>6.0	----	----					
HS751 Worfka	D	None	----	----	>6.0	----	----					
Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Rock outcrop												
HS753 Gaynor	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Samsil	D	None	----	----	>6.0	----	----					
HS902 Samsil	D	None	----	----	>6.0	----	----					
Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Rock outcrop												
HS910 Cadoma	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Theda lund	C	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low

Table D-3. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding		High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)		Uncoated Steel	Concrete
Epsie	D	None	----	----	>6.0	----	----	10-20	Low	High	High
HS930 Rentsac Variant	B	None	----	----	>6.0	----	----	20-40	Moderate		
Rentsac	D	None	----	----	>6.0	----	----	10-20	Moderate	High	Low
Clayburn Variant	B	None	----	----	>6.0	----	----	>60	Moderate	Moderate	Moderate
HS931 Clayburn Variant	B	None	----	----	>6.0	----	----	>60	Moderate	Moderate	Moderate
Rentsac Variant	B	None	----	----	>6.0	----	----	20-40	Moderate		

a = Source: Soil Survey of Carbon County Area, Montana.
 Source: See Glossary, Table A, for a description of properties.
 b = Source: Data from soil series descriptions (Form 5).

Table D-4. Soil and Water Properties of Soil Series of Lincoln and Sweetwater Counties. (a)

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Boltus	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	High
Cambarge	B	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Chrisman	D	Rare	---	---	>6.0	---	---	>60	---	Low	High	High
Dines	B	Rare	---	---	>6.0	---	---	>60	---	High	High	High
Dunkle												
Dunol Variant												
Forelle	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Forelle	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
Forelle Bedrock Substr	B	None	---	---	>6	---	---	40-60	Rippable	Low		
Forelle	B	None	---	---	>6	---	---	>60	---	Low		
Garita (b)	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Garsid	C	None	---	---	>6.0	---	---	30-40	Rippable	Low	High	Moderate
Haterton	D	None	---	---	>6.0	---	---	10-20	Rippable	Low	High	Moderate
Hemerling	B	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Horsley	D	None	---	---	>6.0	---	---	3-10	Rippable	Low	High	Moderate
Hugoston	D	None	---	---	>6.0	---	---	10-20	Rippable	Low	High	Low
Kendaly	A	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Laney	B	None	---	---	>6.0	---	---	>60	---	Low		
Langspring	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
Langspring Variant												
Leckman	B	None	---	---	>6	---	---	>60	---	Low	High	Low
Monte	B	None	---	---	>6.0	---	---	>60	---			
Pepa 1	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Sagecreek	B	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Sandbranch	C	None	---	---	>6.0	---	---	>60	---	Low		

Table D-4. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Tasselman	D	None	----	----	>6.0	----	----	10-20	Hard	Low	High	Moderate
Tresano	B	None	----	----	>6.0	----	----	>60	----			

a = Source: Data from miscellaneous BLM surveys in Lincoln and Sweetwater Counties.

Source: See Glossary, Table A, for a description of properties.

b = Source: Data from soil series descriptions (Form 5).

Table D-5. Soil and Water Features of Natrona County Soils. (a)

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
109 Amodac	C	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Keyner	D	None	---	---	>6.0	---	---	>60	---	Low	High	Low
112 Arvada	D	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Absted	C	None	---	---	>6.0	---	---	>60	---	Low	High	High
Slickspots												
117 Badland												
124 Blackdraw	D	None	---	---	>6.0	---	---	>60	---	Low	High	High
125 Blackdraw	D	None	---	---	>6.0	---	---	>60	---	Low	High	High
Lolite	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	High
Gullied Land												
126 Blazon	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
Worfman	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
130 Bosler	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Alcova	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
132 Bowbac	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Hiland	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
134 Bowbac	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Taluca	D	None	---	---	>6.0	---	---	8-20	Soft	Low	High	Low
Terro	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
140 Cadoma	D	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Renhill	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low

Table D-5. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Sanday	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
149 Chipendale	D	None	---	---	>6.0	---	---	>60	---	Low	High	High
Chipenhill	D	None	---	---	>6.0	---	---	8-20	Soft	Low	High	High
150 Chipendale	D	None	---	---	>6.0	---	---	>60	---	Low	High	High
Razsun	D	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
167 Cushman	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Forkwood	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
175 Duneland												
178 Effington	D	None	---	---	>6.0	---	---	>60	---	Low	High	High
Uffens (b)	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
179 Enos	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Wallson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
186 Forkwood	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Keyner	D	None	---	---	>6.0	---	---	>60	---	Low	High	Low
187 Forkwood	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Ulm	C	None	---	---	>6.0	---	---	>60	---	Low	High	Low
188 Forkwood	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Zigweid	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
190 Griffy	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
191 Griffy	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Emblem	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low

Table D-5. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
194, 195 Haverdard	B	Rare	----	----	>6.0	----	----	>60	----	Low	High	Moderate
Clarkelen	B	Rare	----	----	>6.0	----	----	>60	----	Low	High	Low
199, 201 Hiland	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
205 Irson	D	None	----	----	>6.0	----	----	8-20	Hard	Moderate	Moderate	Low
Kezar												
Rock outcrop												
207 Keeline	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Taluce	D	None	----	----	>6.0	----	----	8-20	Soft	Low	High	Low
Rock outcrop												
208 Keyner	D	None	----	----	>6.0	----	----	>60	----	Low	High	Low
209 Keyner	D	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Absted	C	None	----	----	>6.0	----	----	>60	----	Low	High	High
Slickspots												
210 Keyner	C	None	----	----	>6.0	----	----	>60	----	Low	High	High
Hiland	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
214, 215 Lolite	D	None	----	----	>6.0	----	----	6-20	Soft	Low	High	High
Rock outcrop												
216 Lonebear	D	None	----	----	>6.0	----	----	>60	----	Low	High	High
217 Lupinto	B	None	----	----	>6.0	----	----	40-60	Soft	Low	High	Low
Alcova	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
220 Middletown	D	None	----	----	>6.0	----	----	10-20	Hard	Low	High	Low

Table D-5. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Kather	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
221 Milren	C	None	---	---	>6.0	---	---	>60	---	Moderate	High	Low
Bosler	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Rock River	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
222 Mudray	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Moderate
Bributte	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	High
Birdsley	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
223 Nathrop	C	None	---	---	>6.0	---	---	20-40	Hard	Moderate	High	Low
Starley	D	None	---	---	>6.0	---	---	10-20	---	Moderate	High	Low
225 Nunnston	C	None	---	---	>6.0	---	---	>60	---	Low	High	Low
226 Oceanet	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Persayo	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Moderate
227 Orella	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Cadoma	D	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Petrie	D	None	---	---	>6.0	---	---	>60	---	Low	High	High
228 Orella	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
229 Orpha	A	None	---	---	>6.0	---	---	>60	---	Low	Moderate	Low
232 Persayo	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Moderate
Greybull	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
254 Rock outcrop												
Birdsley	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low

Table D-5. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
256 Rock outcrop												
Ustic Torriorth												
Rubble land												
264 Roughlock	B	None	----	----	>6.0	---	---	>60	----	Low	High	Low
270 Saddle	C	None	----	----	>6.0	---	---	20-40	Soft	Low	High	Low
Griffy	B	None	----	----	>6.0	---	---	>60	----	Low	High	Low
275 Shingle	D	None	----	----	>6.0	---	---	4-20	Soft	Low	High	Low
Taluze	D	None	----	----	>6.0	---	---	8-20	Soft	Low	High	Low
Rock outcrop												
276 Shingle	D	None	----	----	>6.0	---	---	4-20	Soft	Low	High	Low
Theedle	C	None	----	----	>6.0	---	---	20-40	Soft	Low	High	Low
277 Silhouette	C	None	----	----	>6.0	---	---	>60	----	Low	High	Low
278 Silhouette	C	None	----	----	>6.0	---	---	>60	----	Low	High	Low
Petrie	D	None	----	----	>6.0	---	---	>60	----	Low	High	High
282 Terro	C	None	----	----	>6.0	---	---	20-40	Soft	Low	High	Low
Vona lee	B	None	----	----	>6.0	---	---	>6.0	----	Low	High	Low
283 Theedle	C	None	----	----	>6.0	---	---	20-40	Soft	Low	High	Low
Shingle	D	None	----	----	>6.0	---	---	4-20	Soft	Low	High	Low
Kishona	B	None	----	----	>6.0	---	---	>60	----	Low	High	High
284 Threetop	C	None	----	----	>6.0	---	---	20-40	Hard	Low	High	Low
Sunup	D	None	----	----	>6.0	---	---	6-20	Hard	Low	High	Low
Frontier	C	None	----	----	>6.0	---	---	10-20	Hard	Low	High	Moderate

Table D-5. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
289 Torrifluvents												
290 Uffens (b)	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
291 Uffens (b)	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Typic Torrifluvents												
293 Ulm	C	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Absted	C	None	----	----	>6.0	----	----	>60	----	Low	High	High
301 VonaLee	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Hiland	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
306 Worf	D	None	----	----	>6.0	----	----	8-20	Soft	Low	Moderate	Low
Bowbac	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
310 Zigweid	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
311 Zigweid	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Theedle	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low

a = Source: Data from draft Natrona County Soil Survey.

Source: See Glossary, Table A, for a description of properties.

b = Source: Data from soil series descriptions (Form 5).

Table D-6. Soil and Water Features of Soil Series of Park and Big Horn Counties. (a)

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Apron	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Arvada	D	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Baroid	A	Occasional	Brief	May-Jul	4.0-6.0	Jun-Nov	----	>60	----	Low	High	Moderate
Binton	C	None	----	----	>6.0	----	----	>60	----	Low		
Bowbac	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Low
Briquette	D	None	----	----	>6.0	----	----	10-20	Soft	Low	High	High
Chipeta	D	None	----	----	>6.0	----	----	5-20	Soft	Low	High	High
Copeman	B	None	----	----	>6.0	----	----	>60	----	Low		
Deaver	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Dobent	D	Occasional	Brief	Feb-Aug	1.5-3.5	Jun-Nov	----	>60	----	Moderate	High	High
Emblem	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Enos	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Forkwood	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Forkwood	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Fort Collins	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Garland	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Gaynor	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Glenton	B	Occasional	Very Brief	Apr-Jun	>6.0	----	----	>60	----	Low	High	Low
Greybull	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Griffy	B	None	----	----	>6.0	----	----	>60	----	Low		
Hiland	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Keyner	D	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Kim	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Kinnear	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Kishona	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Las Animas	C	Occasional	Brief	Mar-Aug	1.5-3.0	Apparent	Nov-May	>60	----	Moderate	High	Low

Table D-6. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Lostwells	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Meeteetse	D	None	---	---	>6.0	---	---	>60	---	Low	High	High
Midway	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
Mudray	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Moderate
Muff or Muffler	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Moderate
Oceanet	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Low
Oney Sandy Surface	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Otero	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Pavillion	B	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Persayo	D	None	---	---	>6.0	---	---	10-20	Soft	Low	High	Moderate
Preatorson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Sharland	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Shingle	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
Shoshone	C	Occasional	Brief	Feb-Jun	1.5-3.5	Apparent	May-Nov	>60	---	Moderate	High	Low
Silvertip	B	None	---	---	>6.0	---	---	>60	---	Moderate	High	High
Stutzman	C	None	---	---	>6.0	---	---	>60	---	Low	High	High
Tassel	D	None	---	---	>6.0	---	---	6-20	Soft	Low	High	Low
Terry	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Thedaland	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Low
Torchlight	C	None	---	---	>6.0	---	---	>60	---	Low	High	High
Uffens	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Ulm	C	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Vanda	D	None	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Wallson	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low
Willwood	A	Frequent	Brief-Long	Feb-Jun	>6.0	---	---	>60	---	Low	High	Low
Willwood Variant	B	Rare	---	---	>6	---	---	>60	---	Low	High	High

Table D-6. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Winnett	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Worland	B	None	---	---	>6	---	---	20-40	Rippable	Low		
Worland Variant	B	None	---	---	>6.0	---	---	20-40	Soft	Low		
Youngston	B	None-rare	---	---	>6.0	---	---	>60	---	Low	High	Moderate
Zigweid	B	None	---	---	>6.0	---	---	>60	---	Low	High	Low

a = Source: Data from Soil Conservation Service series descriptions (Form 5). Data have not been compiled for soil units.

Table D-7. Soil and Water Features of Washakie County Soils. (a)

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
2 Apron	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
3, 4 Apron	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Worland	B	None	----	----	>6.0	----	----	20-40	Soft	Low	High	Moderate
7 Baroid	A	Occasional	Brief	May-Jul	4.0-6.0	Apparent	Jun-Nov	>60	----	Low	High	Moderate
8 Baroid	A	Occasional	Brief	May-Jul	4.0-6.0	Apparent	Jun-Nov	>60	----	Low	High	Moderate
14 Cliftonson	B	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
Persayo	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
16 Dobent	C	Occasional	Brief	Feb-Aug	1.5-3.5	Apparent	Jun-Nov	>60	----	Moderate	High	High
18 Finnerty	D	None	----	----	1.5-3.5	Apparent	Jun-Nov	>60	----	Low	High	High
19 Fluvuquents												
20 Fluvuents												
21 Forkwood	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Haverdad	B	Rare	----	----	>6.0	----	----	>60	----	Low	High	High
Arvada	D	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
22 Forkwood	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Kishona	B	None	----	----	>6.0	----	----	>60	----	Low	High	High.
Haverdad	B	Rare	----	----	>6.0	----	----	>60	----	Low	High	High.
23 Fruita	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low.
Neiber	B	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High.

Table D-7. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Muff	D	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High.
²⁵ Glenton	B	Occasional	Brief	Feb-Jun	4.0-6.0	Apparent	May-Nov	>60	----	Low	High	High.
²⁶ Glenton	C	Occasional	Brief	Feb-Jun	1.5-3.5	Apparent	Jun-Nov	>60	----	Moderate	High	High.
Baroid	D	Occasional	Brief	Feb-Jun	1.5-3.5	Apparent	Jun-Nov	>60	----	Moderate	High	High.
^{29, 30} Greybull	C	None	----	----	>6.0	----	----	20-40	Soft	Low	High	High
Persayo	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
^{31, 32} Griffy	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
³³ Hoot	D	None	----	----	>6.0	----	----	10-20	Hard	Low	High	High
Rock outcrop												
Persayo	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
³⁴ Kishona	B	None	----	----	>6.0	----	----	>6.0	----	Low	High	High
Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
Rock outcrop												
³⁵ Kishona	C	None	----	----	>6.0	----	----	>60	----	Low	High	High
Shingle	D	None	----	----	>6.0	----	----	4-20	Soft	Low	High	Low
^{40, 41} Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
⁴² Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
Youngston	B	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
Uffens	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
⁴³ Lostwells	D	None	----	----	1.5-3.5	Apparent	Jun-Nov	>60	----	Moderate	High	High
Youngston	D	None	----	----	1.5-3.5	Apparent	Jun-Nov	>60	----	Moderate	High	High
Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low

Table D-7. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
46 Muff	D	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Neiber	B	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
56 Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
Muff	D	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
Rock outcrop												
57 Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
Rock outcrop												
60 Riverwash												
61 Rock outcrop												
Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
66 Stutzman	C	None	---	---	>6.0	---	---	>60	---	Low	High	High
67 Stutzman	D	None	---	---	1.5-3.5	Apparent	Jun-Nov	>60	---	Moderate	High	High
70 Uffens	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Persayo	D	None	---	---	>6.0	---	---	4-20	Soft	Low	High	Low
Greybull	C	None	---	---	>6.0	---	---	20-40	Soft	Low	High	High
71 Uffens	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Rairdent	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Griffy	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
73, 74 Wallison	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
80 Worland	B	None	---	---	>6.0	---	---	>60	---	Low	High	High
Persayo	D	None	---	---	>6.0	---	---	20-40	Soft	Low	High	Moderate
								4-20	Soft	Low	High	Low

Table D-7. Continued.

Soil Name and Map Symbol	Hydro-logic group	Flooding			High Water Table			Bedrock		Potential Frost Action	Risk of Corrosion	
		Frequency	Duration	Months	Depth (Feet)	Kind	Months	Depth (Inch)	Hardness		Uncoated Steel	Concrete
Apron	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
81 Youngston	B	Occasional	Brief	Feb-Jun	4.0-6.0	Apparent	Jun-Nov	>60	----	Moderate	High	High
82 Youngston	B	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
83 Youngston	B	Occasional	Brief	May-Aug	>6.0	----	----	>60	----	Low	High	High
Glenton	B	Occasional	Brief	May-Aug	4.0-6.0	Apparent	Feb-Nov	>60	----	Low	High	High
Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low
84 Youngston	B	None	----	----	>6.0	----	----	>60	----	Low	High	Moderate
Uffens	B	None	----	----	>6.0	----	----	>60	----	Low	High	High
Lostwells	B	None	----	----	>6.0	----	----	>60	----	Low	High	Low

a = Source: Soil Survey of Washakie County, Wyoming.

Source: See Glossary, Table A, for a description of properties.

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